

09/913,577 Paid 9/27/07

Logon

*** It is now 9/27/07 4:07:23 PM ***

Welcome to DialogLink - Version 5

Revolutionize the Way You Work!

New on Dialog

Enhanced Derwent World Patents Index Now Available

The enhanced *Derwent World Patents Index*® (*DWPI*SM) (Files 350,351,352) is now available on Dialog. The improvements implemented in *DWPI* on Dialog further extend the database's rich content set and enhances overall functionality of the database.

In addition to distilled expert analysis reflected in *DWPI* expanded titles and abstracts, other enhancements include original patent filing details, multiple patent images, easy cut-and-paste patent family data, and much more.

The new templates include new features that will help you manage and distribute your *DWPI* search results in an attractive format.

Learn about all of the new *DWPI* enhancements and report templates at <http://www.dialog.com/dwpi>.

DialogLink 5 Release Notes

New features available in the latest release of DialogLink 5 (November 2005)

- Ability to resize images for easier incorporation into DialogLink Reports
- New settings allow users to be prompted to save Dialog search sessions in the format of their choice (Microsoft Word, RTF, PDF, HTML, or TEXT)
- Ability to set up Dialog Alerts by Chemical Structures and the addition of Index Chemicus as a structure searchable database
- Support for connections to STN Germany and STN Japan services

Show Preferences for details

? Help Log On Msg

*** ANNOUNCEMENTS ***

NEW FILES RELEASED

***BIOSIS Previews Archive (File 552)
***BIOSIS Previews 1969-2007 (File 525)
***Engineering Index Backfile (File 988)
***Trademarkscan - South Korea (File 655)

RESUMED UPDATING

***File 141, Reader's Guide Abstracts

RELOADS COMPLETED

***File 156, ToxFile
***Files 154 & 155, MEDLINE
***File 5, BIOSIS Previews - archival data added
***Files 340, 341 & 942, CLAIMS/U.S. Patents - 2006 reload now online

NEWS

Chemical Structure Searching now available in Prous Science Drug
Data Report (F452), Prous Science Drugs of the Future (F453),
IMS R&D Focus (F445/955), Pharmaprojects (F128/928), Beilstein
Facts (F390), Derwent Chemistry Resource (F355) and Index Chemicus
(File 302).

>>>For the latest news about Dialog products, services, content<<<
>>>and events, please visit What's New from Dialog at <<<
>>><http://www.dialog.com/whatsnew/>. You can find news about<<<
>>>a specific database by entering HELP NEWS <file number>.<<<

? Help Off Line

* * *

Connecting to Rob Pond - Dialog - 264751

Connected to Dialog via SMS002057159

? B 15, 9, 610, 810, 275, 476, 624, 621, 636, 613, 813, 16, 160, 634, 148, 20, 35, 583,
65, 2, 474, 475, 99, 256, 348, 349, 347, 635, 570, PAPERSMJ, PAPERSEU, 47

[File 15] **ABI/Inform(R)** 1971-2007/Sep 26

(c) 2007 ProQuest Info&Learning. All rights reserved.

[File 9] **Business & Industry(R)** Jul/1994-2007/Sep 20

(c) 2007 The Gale Group. All rights reserved.

[File 610] **Business Wire** 1999-2007/Sep 27

(c) 2007 Business Wire. All rights reserved.

**File 610: File 610 now contains data from 3/99 forward. Archive data (1986-2/99) is available in File 810.*

[File 810] **Business Wire** 1986-1999/Feb 28

(c) 1999 Business Wire . All rights reserved.

[File 275] **Gale Group Computer DB(TM)** 1983-2007/Sep 20

(c) 2007 The Gale Group. All rights reserved.

[File 476] **Financial Times Fulltext** 1982-2007/Sep 26

(c) 2007 Financial Times Ltd. All rights reserved.

[File 624] **McGraw-Hill Publications** 1985-2007/Sep 27

(c) 2007 McGraw-Hill Co. Inc. All rights reserved.

**File 624: Homeland Security & Defense and 9 Platt energy journals added Please see HELP NEWS624 for more*

[File 621] **Gale Group New Prod.Annou.(R)** 1985-2007/Sep 20

(c) 2007 The Gale Group. All rights reserved.

[File 636] **Gale Group Newsletter DB(TM)** 1987-2007/Sep 24

(c) 2007 The Gale Group. All rights reserved.

[File 613] **PR Newswire** 1999-2007/Sep 27

(c) 2007 PR Newswire Association Inc. All rights reserved.

**File 613: File 613 now contains data from 5/99 forward. Archive data (1987-4/99) is available in File 813.*

[File 813] **PR Newswire** 1987-1999/Apr 30

(c) 1999 PR Newswire Association Inc. All rights reserved.

[File 16] **Gale Group PROMT(R)** 1990-2007/Sep 24

(c) 2007 The Gale Group. All rights reserved.

[File 160] **Gale Group PROMT(R)** 1972-1989

(c) 1999 The Gale Group. All rights reserved.

[File 634] **San Jose Mercury** Jun 1985-2007/Sep 25

(c) 2007 San Jose Mercury News. All rights reserved.

[File 148] **Gale Group Trade & Industry DB** 1976-2007/Sep 21

(c)2007 The Gale Group. All rights reserved.

**File 148: The CURRENT feature is not working in File 148. See HELP NEWS148.*

[File 20] **Dialog Global Reporter** 1997-2007/Sep 27

(c) 2007 Dialog. All rights reserved.

[File 35] **Dissertation Abs Online** 1861-2007/Jul

(c) 2007 ProQuest Info&Learning. All rights reserved.

[File 583] **Gale Group Globalbase(TM)** 1986-2002/Dec 13

(c) 2002 The Gale Group. All rights reserved.

**File 583: This file is no longer updating as of 12-13-2002.*

[File 65] **Inside Conferences** 1993-2007/Sep 27

(c) 2007 BLDSC all rts. reserv. All rights reserved.

[File 2] **INSPEC** 1898-2007/Sep W3

(c) 2007 Institution of Electrical Engineers. All rights reserved.

[File 474] **New York Times Abs** 1969-2007/Sep 27

(c) 2007 The New York Times. All rights reserved.

[File 475] **Wall Street Journal Abs** 1973-2007/Sep 25

(c) 2007 The New York Times. All rights reserved.

[File 99] **Wilson Appl. Sci & Tech Abs** 1983-2007/Aug

(c) 2007 The HW Wilson Co. All rights reserved.

[File 256] **TecInfoSource** 82-2007/May

(c) 2007 Info.Sources Inc. All rights reserved.

[File 348] **EUROPEAN PATENTS** 1978-2007/ 200738

(c) 2007 European Patent Office. All rights reserved.

**File 348: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.*

[File 349] **PCT FULLTEXT** 1979-2007/UB=20070913UT=20070906

(c) 2007 WIPO/Thomson. All rights reserved.

**File 349: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.*

[File 347] **JAPIO** Dec 1976-2007/Jun(Updated 070926)

(c) 2007 JPO & JAPIO. All rights reserved.

[File 635] **Business Dateline(R)** 1985-2007/Sep 27

(c) 2007 ProQuest Info&Learning. All rights reserved.

[File 570] **Gale Group MARS(R)** 1984-2007/Sep 20

(c) 2007 The Gale Group. All rights reserved.

[File 387] **The Denver Post** 1994-2007/Sep 25

(c) 2007 Denver Post. All rights reserved.

[File 471] **New York Times Fulltext** 1980-2007/Sep 27

(c) 2007 The New York Times. All rights reserved.

[File 492] **Arizona Repub/Phoenix Gaz** 19862002/Jan 06

(c) 2002 Phoenix Newspapers. All rights reserved.

**File 492: File 492 is closed (no longer updating). Use Newsroom, Files 989 and 990, for current records.*

[File 494] **St LouisPost-Dispatch** 1988-2007/Sep 26

(c) 2007 St Louis Post-Dispatch. All rights reserved.

[File 631] **Boston Globe** 1980-2007/Sep 23

(c) 2007 Boston Globe. All rights reserved.

[File 633] **Phil.Inquirer** 1983-2007/Sep 26

(c) 2007 Philadelphia Newspapers Inc. All rights reserved.

[File 638] **Newsday/New York Newsday** 1987-2007/Sep 26

(c) 2007 Newsday Inc. All rights reserved.

[File 640] **San Francisco Chronicle** 1988-2007/Sep 26

(c) 2007 Chronicle Publ. Co. All rights reserved.

[File 641] **Rocky Mountain News** Jun 1989-2007/Sep 27

(c) 2007 Scripps Howard News. All rights reserved.

[File 702] **Miami Herald** 1983-2007/Sep 23

(c) 2007 The Miami Herald Publishing Co. All rights reserved.

[File 703] **USA Today** 1989-2007/Sep 25

(c) 2007 USA Today. All rights reserved.

[File 704] **(Portland)The Oregonian** 1989-2007/Sep 27

(c) 2007 The Oregonian. All rights reserved.

[File 713] **Atlanta J/Const.** 1989-2007/Sep 27

(c) 2007 Atlanta Newspapers. All rights reserved.

[File 714] **(Baltimore) The Sun** 1990-2007/Sep 26

(c) 2007 Baltimore Sun. All rights reserved.

[File 715] **Christian Sci.Mon.** 1989-2007/Sep 27

(c) 2007 Christian Science Monitor. All rights reserved.

[File 725] **(Cleveland)Plain Dealer** Aug 1991-2007/Sep 26

(c) 2007 The Plain Dealer. All rights reserved.

[File 735] **St. Petersburg Times** 1989- 2007/Sep 26

(c) 2007 St. Petersburg Times. All rights reserved.

[File 477] **Irish Times** 1999-2007/Sep 27

(c) 2007 Irish Times. All rights reserved.

[File 710] **Times/Sun.Times(London)** Jun 1988-2007/Sep 27

(c) 2007 Times Newspapers. All rights reserved.

[File 711] **Independent(London)** Sep 1988-2006/Dec 12

(c) 2006 Newspaper Publ. PLC. All rights reserved.

**File 711: Use File 757 for full current day's news of the Independent, as as well as full coverage of many additional European news sources.*

[File 756] **Daily/Sunday Telegraph** 2000-2007/Sep 26

(c) 2007 Telegraph Group. All rights reserved.

[File 757] **Mirror Publications/Independent Newspapers** 2000-2007/Sep 27

(c) 2007. All rights reserved.

[File 47] **Gale Group Magazine DB(TM)** 1959-2007/Sep 12

(c) 2007 The Gale group. All rights reserved.

? s pd<19991217

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>>>W: One or more prefixes are unsupported
or undefined in one or more files.

S1 70643070 S PD<19991217

? s (combine or combining or combined or combines) (5n) ((digital or electronic or derivative or composite) (2w) (content or work? ?))

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Processing

1488788	COMBINE
1460069	COMBINING
5645835	COMBINED
1367850	COMBINES
6179197	DIGITAL
9183245	ELECTRONIC
693213	DERIVATIVE
1403831	COMPOSITE
5652883	CONTENT
26959412	WORK? ?

S2 1786 S (COMBINE OR COMBINING OR COMBINED OR COMBINES) (5N) ((DIGITAL OR ELECTRONIC OR DERIVATIVE OR COMPOSITE) (2W) (CONTENT OR WORK? ?))

? S (Composite or composites) (5N) ((DIGITAL OR ELECTRONIC OR DERIVATIVE) (2W) (CONTENT OR WORK? ?))

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1403831	COMPOSITE
313470	COMPOSITES
6179197	DIGITAL
9183245	ELECTRONIC
693213	DERIVATIVE
5652883	CONTENT
26959412	WORK? ?

S3 86 S (COMPOSITE OR COMPOSITES) (5N) ((DIGITAL OR ELECTRONIC OR DERIVATIVE) (2W) (CONTENT OR WORK? ?))

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Set	Items	Description
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S1	70643070	S PD<19991217
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S2	1786	S (COMBINE OR COMBINING OR COMBINED OR COMBINES) (5N) ((DIGITAL OR ELECTRONIC OR DERIVATIVE OR COMPOSITE) (2W) (CONTENT OR WORK? ?))
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S3	86	S (COMPOSITE OR COMPOSITES) (5N) ((DIGITAL OR ELECTRONIC OR DERIVATIVE) (2W) (CONTENT OR WORK? ?))
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? s s1 and s3

70643070	S1
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86	S3
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S4	15	S S1 AND S3
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? rd

>>>W: Duplicate detection is not supported for File 348.

Duplicate detection is not supported for File 349.

Duplicate detection is not supported for File 347.

Records from unsupported files will be retained in the RD set.

S5	14	RD (UNIQUE ITEMS)
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? t s4/free/all

>>>W: "FREE" is not a valid format name in file(s): 347-349

4/8/1 (Item 1 from file: 810)
Business Wire
(c) 1999 Business Wire . All rights reserved.
0290060 BW724

BOSS FILM STUDIOS IBM : Boss Film Studios first in entertainment industry to install IBM POWER Visualization System

July 28, 1992

Byline: Business Editors & Computer/Technology Writers
Word Count: 912

4/8/2 (Item 1 from file: 275)
Gale Group Computer DB(TM)
(c) 2007 The Gale Group. All rights reserved.
01455636 **Supplier Number:** 11444321 (Use Format 7 Or 9 For FULL TEXT)
Terminator 2: a film effects revolution. (raises computer graphics to major role in film-making)

Oct , 1991
Word Count: 2722 **Line Count:** 00207

Special Features: illustration; photograph
Company Names: Lucasfilm Ltd. Industrial Light and Magic Div.--Innovations
Descriptors: Entertainment; Virtual Reality; New Technique; Computer Graphics
Named Persons: Cameron, James--Production and direction
SIC Codes: 7819 Services allied to motion pictures; 7812 Motion picture & video production; 7372 Prepackaged software
File Segment: CD File 275

4/8/3 (Item 1 from file: 16)
Gale Group PROMT(R)
(c) 2007 The Gale Group. All rights reserved.
03339152 **Supplier Number:** 44620924 (USE FORMAT 7 FOR FULLTEXT)

Software for Distributing Digital Video

April 25 , 1994
Word Count: 415
Publisher Name: CMP Media, Inc.
Company Names: *International Business Machines Corp.
Event Names: *330 (Product information)
Geographic Names: *1USA (United States)
Product Names: *7372620 (Network Software)
Industry Names: BUSN (Any type of business); TELC (Telecommunications)
NAICS Codes: 51121 (Software Publishers)

Ticker Symbols: IBM
Special Features: COMPANY

4/8/4 (Item 1 from file: 148)
Gale Group Trade & Industry DB
(c)2007 The Gale Group. All rights reserved.
05487478 **Supplier Number:** 11444321 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Terminator 2: a film effects revolution. (raises computer graphics to major role in film-making)

Oct , 1991
Word Count: 2722 **Line Count:** 00207

Special Features: illustration; photograph
Company Names: Lucasfilm Ltd. Industrial Light and Magic Div.--Innovations
Industry Codes/Names: CMPT Computers and Office Automation
Descriptors: Terminator 2: Judgment Day (Motion picture)--Design and construction; Cinematography--Technique; Science fiction films--Design and construction; Motion picture industry--Innovations; Computer graphics--Usage; Computer software industry--Innovations
Named Persons: Cameron, James--Production and direction
Product/Industry Names: 7819 Services allied to motion pictures; 7812 Motion picture & video production; 7372 Prepackaged software
File Segment: CD File 275

>>>W: "FREE" is not a valid format name in file(s): 347-349

? s (rights(w)management) or ((digital or use or usage)(3n)(permission or permissions or right or rights)) or drm or license or licensed or licenses or licensing or (intellectual(w)(property or properties)) or copyright or copyrights

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8733865 RIGHTS
24326955 MANAGEMENT
64362 RIGHTS (W) MANAGEMENT
6179197 DIGITAL
26184846 USE
1793282 USAGE
2373604 PERMISSION
57679 PERMISSIONS

15578521 RIGHT

8733865 RIGHTS

332814 ((DIGITAL OR USE) OR USAGE) (3N) (((PERMISSION OR PERMISSIONS) OR RIGHT) OR RIGHTS)

45393 DRM

2493884 LICENSE

1780333 LICENSED

1197266 LICENSES

2649452 LICENSING

1670617 INTELLECTUAL

8590254 PROPERTY

5290664 PROPERTIES

1191331 INTELLECTUAL (W) (PROPERTY OR PROPERTIES)

11691109 COPYRIGHT

237909 COPYRIGHTS

S6 18512683 S (RIGHTS(W)MANAGEMENT) OR ((DIGITAL OR USE OR USAGE) (3N) (PERMISSION OR PERMISSIONS OR RIGHT OR RIGHTS)) OR DRM OR LICENSE OR LICENSED OR LICENSES OR LICENSING OR (INTELLECTUAL(W) (PROPERTY OR PROPERTIES)) OR COPYRIGHT OR COPYRIGHTS

? d s

Set Items Description

S1 70643070 S PD<19991217

S2 1786 S (COMBINE OR COMBINING OR COMBINED OR COMBINES) (5N) ((DIGITAL OR ELECTRONIC OR DERIVATIVE OR COMPOSITE) (2W) (CONTENT OR WORK? ?))

S3 86 S (COMPOSITE OR COMPOSITES) (5N) ((DIGITAL OR ELECTRONIC OR DERIVATIVE) (2W) (CONTENT OR WORK? ?))

S4 15 S S1 AND S3

S5 14 RD (unique items)

S6 18512683 S (RIGHTS(W)MANAGEMENT) OR ((DIGITAL OR USE OR USAGE) (3N) (PERMISSION OR PERMISSIONS OR RIGHT OR RIGHTS)) OR DRM OR LICENSE OR LICENSED OR LICENSES OR LICENSING OR (INTELLECTUAL(W) (PROPERTY OR PROPERTIES)) OR COPYRIGHT OR COPYRIGHTS

? s s1 and s3 and s6

70643070 S1

86 S3

18512683 S6

S7 6 S S1 AND S3 AND S6

? t s7/free/all

>>>W: "FREE" is not a valid format name in file(s): 347-349

? rd s7

>>>W: Duplicate detection is not supported for File 348.

Duplicate detection is not supported for File 349.

Duplicate detection is not supported for File 347.

Records from unsupported files will be retained in the RD set.

S8 6 RD S7 (UNIQUE ITEMS)

? t s8/k/all

8/K/1 (Item 1 from file: 348)

EUROPEAN PATENTS

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Country	Number	Kind	Date		
Type	Pub. Date		Kind	Text	
Available Text	Language		Update	Word Count	

Total Word Count (Document A)
Total Word Count (Document B)
Total Word Count (All Documents)

Specification: ...digital documents, and for exchanging documents with a repository, said repository storing documents having attached **usage rights**, the transportable storage device comprising: a rigid enclosure; a storage means positioned within said rigid enclosure, said storage means for storing documents having attached **usage rights**; a power source for providing power to enable standalone operation of said transportable storage device...95308420.9. A repository is a device which enables access to documents through enforcement of **usage rights** which are attached to the documents. **Usage rights** define how and under what conditions a stored document may be used or distributed. For...implements the functionality of a repository as defined in European patent application No. 95308420.9. **Usage rights** are attached to **digital** works and control how the digital work can be used or distributed, and are further... ...When a repository receives a request to access a digital work, the repository examines the **usage rights** attached to the **digital** works to determine if access may be granted.

As used herein, the terms digital work...such as data encryption/decryption, or data compression/decompression. Finally, the controller module 201 enforces **usage rights** attached to documents, initiation of usage fee transactions, and controls the DocuCard User Interface.

An... ...function for obtaining the document, step 304. The particular function will correspond to a particular **usage right** and indicates how the user wishes to use the document. A list of available documents...based system used to play, display or print the document. The description file contains the **usage rights** for the document and a pointer to the document in the content part. For **composite** documents comprised of multiple individual **digital works**, the description part is an acyclic structure (e.g. a tree structure) wherein each node... ...giving the number of bytes in the work, a rights portion 504 wherein the granted **usage rights** and their status data are maintained, a parent pointer 505 for pointing to a parent... ...the various information associated with a right is maintained. The information required by the respective **usage rights** is described in more detail below. The d-blocks form a strict hierarchy. The top...

Claims: ...digital documents, and for exchanging documents with a repository, said repository storing documents having attached **usage rights**, the device comprising:

a rigid enclosure;

a storage means positioned within said rigid enclosure, said storage means for storing documents having attached **usage rights**;

a power source for providing power to enable standalone operation of said transportable storage device... ...access control means of said controller module is further comprised of a means for enforcing **usage rights** attached to documents.

7. The device of claim 6, wherein said controller module is further... ...of claims 1 to 9, said documents stored in said repository having one or more **usage rights** attached thereto, said **usage rights** indicating a particular manner by which said document may be used, said device comprised of... ...a selected document is used, each of said functions corresponding to an instance of a **usage right**;

c) detecting said user selecting a function from said displayed list of functions;

d) displaying... ...said repository;

f) said repository determining if said desired document has said instance of a **usage right** corresponding to said selected function;

g) if said desired document has attached thereto said **usage right** corresponding to said selected function, said repository granting access to said document; and

h) if said desired document does not have attached thereto said **usage right** corresponding to said selected function, said repository denying access to said document.

8/K/2 (Item 2 from file: 348)

EUROPEAN PATENTS

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Country	Number	Kind	Date
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Abstract ...present invention, a "digital ticket" is used to entitle the ticket holder to exercise some **usage right** (102) with respect to a **digital** work. **Usage rights** are used to define how a digital work may be used or distributed. Each **usage right** may specify a **digital** ticket which must be present before the **right** may be exercised. **Digital** works are stored in repositories which enforce **digital** works **usage rights** (105) when **usage** of a digital work is requested by a requesting repository (103,104). Each repository has...

Type	Pub. Date	Kind	Text
Available Text	Language	Update	Word Count
Total Word Count (Document A)			
Total Word Count (Document B)			
Total Word Count (All Documents)			

Specification: ...A1

The present invention relates to the field of distribution and **usage rights** enforcement for digitally encoded works.

A fundamental issue facing the publishing and information industries as... ..the present invention, a "digital ticket" is used to enable the ticket holder to exercise **usage rights** specifying the requirement of the **digital** ticket. **Usage rights** are used to define how a digital work may be used or distributed. Specific instances of **usage rights** are used to indicate a particular manner of use or distribution. A **usage right** may specify a **digital** ticket which must be present before the right may be exercised. For example, a digital ticket may be specified in a Copy **right** of a **digital** work, so that exercise of the Copy right requires the party that desires a copy... ..it may no longer be used.

Digital works are stored in repositories. Repositories enforce the **usage rights** for **digital** works. Each repository has a "generic ticket agent" which punches tickets. In some instances only...the present invention.

Figure 11 is a description tree wherein certain d-blocks have PRINT **usage rights** and is used to illustrate "strict" and "lenient" rules for resolving **usage rights** conflicts.

Figure 12 is a block diagram of the hardware components of a repository as... ..embodiment of the present invention.

Figure 14 is diagram illustrating the basic components of a **usage right** in the currently preferred embodiment of the present invention.

Figure 15 lists the **usage rights** grammar of the currently preferred embodiment of the present invention.

Figure 16 is a flowchart... ..accompanying interpreter (e.g. software) that may be required for recreating the work. The term **composite** work refers to a **digital work** comprised of a collection of other digital works. The term "**usage**

rights" or "**rights**" is a term which refers to rights granted to a recipient of a **digital work**. Generally, these **rights** define how a **digital work** can be used and if it can be further distributed. Each **usage right** may have one or more specified conditions which must be satisfied before the right may... ..1, a creator creates a digital work, step 101. The creator will then determine appropriate **usage rights** and fees, attach them to the digital work, and store them in Repository 1, step 102. The determination of appropriate **usage rights** and fees will depend on various economic factors. The digital work remains securely in Repository... ..to obtain a copy of the digital work. The purpose will correspond to a specific **usage right**. In any event, Repository 1 checks the **usage rights** associated with the **digital work** to determine if the access to the digital work may be granted, step 105. The check of the **usage rights** essentially involves a determination of whether a right associated with the access request has been...itself a digital work that can be moved between repositories and subjected to fees and **usage rights** conditions. An authorization may be required by both repositories involved in an access to a... ..a digital work and a repository 415 for accessing digital works stored therein.

STRUCTURE OF DIGITAL WORKS

Usage rights are attached directly to digital works. Thus, it is important to understand the structure of a digital work. The structure of a **digital work**, in particular **composite digital works**, may be naturally organized into an acyclic structure such as a hierarchy. For example, a... ..articles and photographs may represent a node in a hierarchical structure. Consequently, controls, i.e. **usage rights**, may be placed on each node by the creator. By enabling control and fee billing...giving the number of bytes in the work, a rights portion 704 wherein the granted **usage rights** and their status data are maintained, a parent pointer 705 for pointing to a parent... ..the various information associated with a right is maintained. The information required by the respective **usage rights** is described in more detail below. D-blocks form a strict hierarchy. The top d... ..a work has no parent; all other d-blocks have one parent. The relationship of **usage rights** between parent and child d-blocks and how conflicts are resolved is described below.

A... ..right. The status information field 1052 will contain information relating to the state of a **right** and the **digital work**. Such information is indicated below in Table 1. The rights as stored in the... ..in alphabetical order. The digital works are typed to reflect how the files are used. **Usage rights** can be attached to folders so that the folder itself is treated as a digital...may be attached to the folder which define how folder contents can be managed.

ATTACHING USAGE RIGHTS TO A DIGITAL WORK

It is fundamental to the present invention that the **usage rights** are treated as part of the digital work. As the digital work is distributed, the scope of the granted **usage rights** will remain the same or may be narrowed. For example, when a digital work is transferred from a document server to a repository, the **usage rights** may include the right to loan a copy for a predetermined period of time (called the original rights). When the repository loans out a copy of the **digital work**, the **usage rights** in the loaner copy (called the next set of rights) could be set to prohibit... ..basic idea is that one cannot grant more rights than they have.

The attachment of **usage rights** into a **digital work** may occur in a variety of ways. If the **usage rights** will be the same for an entire digital work, they could be attached when the... ..deposit in the digital work server. In the case of a digital work having different **usage rights** for the various components, this can be done as the digital work is being created... ..work assembling tool could be utilized which provides for an automated process of attaching the **usage rights**.

As will be described below, when a digital work is copied, transferred or loaned, a... ..transported.

Resolving Conflicting Rights

Because each part of a digital work may have its own **usage rights**, there will be instances where the rights of a "contained part" are different from its... ..supports various combinations of allowing and disallowing access. Moreover, as will be described below, the **usage rights** grammar permits the owner of a digital work to specify if constraints may be imposed... ..by a container part. The manner in which digital works may be sanctioned because

of **usage rights** conflicts would be implementation specific and would depend on the nature of the digital works...element 1201 and processor memory 1202. The processing means 1201 provides controller, repository transaction and **usage rights** transaction functions for the repository. Various functions in the operation of the repository such as... ...optical disk.

The clock 1205 is used to time-stamp various time based conditions for **usage rights** or for metering **usage** fees which may be associated with the digital works. The clock 1205 will have an in order to invoke transactions to gain access to a digital work, or exercise **usage rights**. As described above, a repository may be embodied in various forms. The user interface for... ...a right. The requirement for payment of fees is described with each version of a **usage right** in the **usage rights** language. The recording and reporting of such fees is performed by the credit server. One... ...is a single fee at the time of purchase, after which the purchaser obtains unlimited **rights** to **use** the work as often and for as long as he or she wants. Alternative models... ...server reporting the transaction to minimize transaction processing at the risk of losing some transactions.

USAGE RIGHTS LANGUAGE

The present invention uses statements in a high level "**usage rights** language" to define **rights** associated with **digital** works and their parts. **Usage rights** statements are interpreted by repositories and are used to determine what transactions can be successfully... ...it can be used, and what fees (if any) are to be charged for that **use**. Once the **usage rights** statements are generated, they are encoded in a suitable form for accessing during the processing of transactions.

Defining **usage rights** in terms of a language in combination with the hierarchical representation of a digital work...will be described in greater detail below with respect to the language grammar elements.

The **usage rights** language is based on the grammar described below. A grammar is a convenient means for... ...optional items. Note that brackets, bars and braces are used to describe the language of **usage rights** sentences but do not appear in actual sentences in the language.

In contrast, parentheses are part of the **usage rights** language. Parentheses are used to group items together in lists. The notation (x*) is used... ...as its value. In some cases, the keyword takes a list of identifiers.

In the **usage rights** language, time is specified in an hours:minutes:seconds (or hh:mm:ss) representation. Time... ...or units of time Money units are specified in terms of dollars.

Finally, in the **usage rights** language, various "things" will need to interact with each other. For example, an instance of a **usage right** may specify a bank account, a digital ticket, etc.. Such things need to be identified and are specified herein using the suffix "-ID."

The **Usage Rights** Grammar is listed in its entirety in Figure 15 and is described below.

Grammar element 1501 "**Digital Work Rights: = (Rights*)**" define the **digital** work **rights** as a set of rights. The set of **rights** attached to a **digital** work define how that digital work may be transferred, used, performed or played. A set... ...work and in the case of compound digital works, each of the components of the **digital** work. The **usage rights** of components of a digital may be different.

Grammar element 1502 "**Right : = (Right-Code (Copy-Count) (Control-Spec) (Time-Spec)(Access-spec)(Fee-Spec))**" enumerates the content of a

right. Each **usage right** must specify a right code. Each right may also optionally specify conditions which must be... ...optional elements, the following defaults apply: copy count equals 1, no time limit on the **use** of the **right**, no access tests or a security level required to **use** the **right** and no fee is required. These conditions will each be described in greater detail below... ...display.

* Print To render the work in a medium that is not further protected by **usage rights**, such as printing on paper.

Grammar element 1505 "Transport-Code : = (Copy(vertical bar)Transfer(vertical...making of backup copies to protect the copy owner against catastrophic equipment failure.

Many software **licenses** and also **copyright** law give a copy owner the right to make backup copies to protect against catastrophic... ..management rights enable the making and restoring of backup copies in a way that respects **usage rights**, honoring the requirements of both the copy owner and the rights grantor and revenue owner. Backup copies of work descriptions (including **usage rights** and fee data) can be sent under appropriate protocol and **usage rights** control to other document repositories of sufficiently high security. Further **rights** permit organization of **digital** works into folders which themselves are treated as digital works and whose contents may be... ..Edit (Process: Process-ID)) (Next-Copy-Rights : Next-Set-of Rights)" lists a category of **rights** involving the **use** of a digital work to create new works.

* Extract To remove a portion of a... ..vertical bar) Unrestrictable) (Unchargeable (vertical bar) Chargeable))" provides a condition to specify the effect of **usage rights** and fees of parents on the exercise of the **right**. A **digital** work is restrictable if higher level d-blocks can impose further restrictions (time specifications and... ..is restrictable. A right is unchargeable if no more fees can be imposed on the **use** of the **right**. It is ...kinds of time specifications. Each specification represents some limitation on the times over which the **usage right** applies. The Expiration-Date specifies the moment at which the **usage right** ends. For example, if the Expiration-Date is "Jan 1, 1995," then the right ends... ..in greater detail below.

In a transaction involving a repository and a document server, some **usage rights** may require that the repository have a particular authorization, that the server have some authorization... ..to be established and authorization obtained before the right could be exercised.

For one-time **usage rights**, a variant on this scheme is to have a digital ticket. A ticket is presented... ..Tickets are digital works and can be copied or transferred between repositories according to their **usage rights**.

In the currently preferred embodiment, a "punched" ticket becomes "unpunched" or "refreshed" when it is...that it was punched. Of course, the digital ticket must have the copy or extract **usage rights** attached thereto.

The capability to unpunch a ticket is important in the following cases:

* A... ..a essentially a scheduled modifier of any other fee specification for this version of the **right** of the **digital** work. (It does not refer to children or parent digital works or to other versions...various transactions. The combination of transactions invoked will depend on the specifications assigned for a **usage right**. There are three basic types of transactions, Session Initiation Transactions, Financial Transactions and Usage Transactions... ..establish a valid session. When a valid session is established, transactions corresponding to the various **usage rights** are invoked. Finally, request specific transactions are performed.

Transactions occur between two repositories (one acting...There are some common steps that are part of the semantics of all of the **usage rights** transactions. These steps are referred to as the common transaction steps. There are two sets... ..these are listed here rather than repeating them in the descriptions of all of the **usage rights** transactions.

Transactions can refer to a part of a digital work, a complete digital work... ..Many of the steps here involve determining if certain conditions are satisfied. Recall that each **usage right** may have one or more conditions which must be satisfied before the **right** can be exercised. **Digital** works have parts and parts have parts. Different parts can have different rights and fees... ..has occurred and that a "trusted" session is in place. General tests are tests on **usage rights** associated with the folder containing the work or some containing folder higher in the file...that the copy count does not equal zero, the server checks if the copies in **use** for the requested **right** is greater than or equal to any copy count for the requested right (or relevant... ..copies in use is greater than or equal to the copy count, this

indicates that **usage rights** for the version of the transaction have been exhausted. Accordingly, the server terminates the transaction... ..is the sum of the Copy-Counts for all of the versions of the loan **right** of the **digital work**. For a **composite** work, the relevant figure is the minimal such sum of each of the components of... ..of remaining rights, the server terminates the transaction, step 1805.

If Loan is not a **usage right** for the **digital** work or if all copies have not been loaned out or the requested right is... ..decremented by the number of copies involved in the transaction, step 1817. Next, if the **right** had a metered **usage** fee specification, the server subtracts the elapsed time from the Remaining-Use-Time associated with... ..adds a level of encryption for no real gain in accountability.

The transaction for specific **usage rights** are now discussed.

The Copy Transaction

A Copy transaction is a request to make one or more independent copies of the work with the same or lesser **usage rights**. Copy differs from the extraction right discussed later in that it refers to entire digital... ..original are transmitted. In any event, the Copy-Count field for the copy of the **digital** work being sent **right** is set to the number-of-copies requested.

- * The requester records the work contents, data, and **usage rights** and stores the work. It records the date and time that the copy was made... ..transaction is a request to move copies of the work with the same or lesser **usage rights** to another repository. In contrast with a copy transaction, this results in removing the work... ..set to the number-of-copies requested.
- * The requester records the work contents, data, and **usage rights** and stores the work.
- * The server decrements its copy count by the number of copies... ..as modified to reflect the loan period.
- * The requester records the digital work contents, data, **usage rights**, and loan period and stores the work.
- * The server updates the **usage rights** information in the **digital** work to reflect the number of copies loaned out.
- * The repositories perform the common closing transaction steps.
- * The server updates the **usage rights** data for the **digital** work. This may preclude use of the work until it is returned from the loan... ..makes a copy of the digital work in a place outside of the protection of **usage rights**. As with all rights, this may require particular authorization certificates.

Once a digital work is printed, the publisher and user are bound by whatever **copyright** laws are in effect. However, printing moves the contents outside the control of repositories. For... ..a digital disk is permitted, then that digital copy is outside of the control of **usage rights**. Both the creator and the user know this, although the creator does not necessarily give tacit consent to such copying, which may violate **copyright** laws.

- * The requester sends the server a message to initiate a Print transaction. This message... ..the original are transmitted by the server.
- * The requester records the work contents, data, and **usage rights**. It then creates a one-time key and encrypts the contents file. It saves the... ..restore operation is intended to be used to compensate for catastrophic media failure. Like all **usage rights**, restoration **rights** can include fees and access tests including authorization checks.
- * The requester sends the server a... ..server retrieves the key from the restoration file. It decrypts the work contents, data, and **usage rights**.
- * The server transmits the requested contents and data to the requester according to the transmission... ..except that it is generalized to the full power of the access specifications of the **usage rights** language.

The Directory transaction has the important role of passing along descriptions of the rights... ..is set to the number-of-copies requested.

- * The requester records the contents, data, and **usage rights** and ...is set to the number-of-copies requested.
- * The requester records the contents, data, and **usage rights** and embeds the work in the destination file.
- * The repositories perform the common closing transaction... ..transactions," but they are actually made up of other transactions that repositories already have.

A **usage right** can specify an authorization-ID, which identifies an authorization object (a digital work in a...in the repository where it is no longer accessible as a work for exercising any **usage rights** other than the execution of the software as part of repository operations in carrying out...

Specification: ...B1

The present invention relates to the field of distribution and **usage rights** enforcement for digitally encoded works.

A fundamental issue facing the publishing and information industries as... ..the present invention, a "digital ticket" is used to enable the ticket holder to exercise **usage rights** specifying the requirement of the **digital** ticket. **Usage rights** are used to define how a digital work may be used or distributed. Specific instances of **usage rights** are used to indicate a particular manner of use or distribution. A **usage right** may specify a **digital**

ticket which must be present before the right may be exercised. For example, a digital ticket may be specified in a Copy

right of a **digital** work, so that exercise of the Copy right requires the party that desires a copy... ..it may no longer be used.

Digital works are stored in repositories. Repositories enforce the **usage rights** for **digital** works. Each repository has a "generic ticket agent" which punches tickets. In some instances only...the present invention.

Figure 11 is a description tree wherein certain d-blocks have PRINT **usage rights** and is used to illustrate "strict" and "lenient" rules for resolving **usage rights** conflicts.

Figure 12 is a block diagram of the hardware components of a repository as... ..embodiment of the present invention.

Figure 14 is diagram illustrating the basic components of a **usage right** in the currently preferred embodiment of the present invention.

Figure 15 lists the **usage rights** grammar of the currently preferred embodiment of the present invention.

Figure 16 is a flowchart... ..accompanying interpreter (e.g. software) that may be required for recreating the work. The term **composite** work refers to a **digital work** comprised of a collection of other digital works. The term "**usage rights**" or "**rights**" is a term which refers to rights granted to a recipient of a **digital** work. Generally, these **rights** define how a **digital** work can be used and if it can be further distributed. Each **usage right** may have one or more specified conditions which must be satisfied before the right may... ..1, a creator creates a digital work, step 101. The creator will then determine appropriate **usage rights** and fees, attach them to the digital work, and store them in Repository 1, step 102. The determination of appropriate **usage rights** and fees will depend on various economic factors. The digital work remains securely in Repository... ..to obtain a copy of the digital work. The purpose will correspond to a specific **usage right**. In any event, Repository 1 checks the **usage rights** associated with the **digital** work to determine if the access to the digital work may be granted, step 105. The check of the **usage rights** essentially involves a determination of whether a right associated with the access request has been...itself a digital

work that can be moved between repositories and subjected to fees and **usage rights** conditions. An authorization may be required by both repositories involved in an access to a... ..a digital work and a repository 415 for accessing digital works stored therein.

STRUCTURE OF DIGITAL WORKS

Usage rights are attached directly to digital works. Thus, it is important to understand the structure of a digital work. The structure of a **digital work**, in particular **composite digital works**, may be naturally organized into an acyclic structure such as a hierarchy. For example, a... ..articles and photographs may represent a node in a hierarchical structure. Consequently, controls, i.e. **usage rights**, may be placed on each node ...giving the number of bytes in the work, a rights portion 704 wherein the granted **usage rights** and their status data are maintained, a parent pointer 705 for pointing to a parent... ..the various information associated with a right is maintained. The information required by the respective **usage rights** is described in more detail below. D-blocks form a strict hierarchy. The top d... ..a work has no parent; all other d-blocks have one parent. The relationship of **usage rights** between parent and child d-blocks and how conflicts are resolved is described below.

A... ..right. The status information field 1052 will contain information relating to the state of a **right** and the **digital work**. Such information is indicated below in Table 1. The rights as stored in the files are used. **Usage rights** can be attached to folders so that the folder itself is treated as a digital... ..may be attached to the folder which define how folder contents can be managed.

ATTACHING USAGE RIGHTS TO A DIGITAL WORK

It is fundamental to the present invention that the **usage rights** are treated as part of the digital work. As the digital work is distributed, the scope of the granted **usage rights** will remain the same or may be narrowed. For example, when a digital work is transferred from a document server to a repository, the **usage rights** may include the right to loan a copy for a predetermined period of time (called the original rights). When the repository loans out a copy of the **digital work**, the **usage rights** in the loaner copy (called the next set of rights) could be set to prohibit... ..basic idea is that one cannot grant more rights than they have.

The attachment of **usage rights** into a **digital work** may occur in a variety of ways. If the **usage rights** will be the same for an entire digital work, they could be attached when the... ..deposit in the digital work server. In the case of a digital work having different **usage rights** for the various components, this can be done as the digital work is being created... ..work assembling tool could be utilized which provides for an automated process of attaching the **usage rights**.

As will be described below, when a digital work is copied, transferred or loaned, a... ..transported.

Resolving Conflicting Rights

Because each part of a digital work may have its own **usage rights**, there will be instances where the rights of a "contained part" are different from its... ..supports various combinations of allowing and disallowing access. Moreover, as will be described below, the **usage rights** grammar permits the owner of a digital work to specify if constraints may be imposed... ..by a container part. The manner in which digital works may be sanctioned because of **usage rights** conflicts would be implementation specific and would depend on the nature of the digital works...element 1201 and processor memory 1202. The processing means 1201 provides controller, repository transaction and **usage rights** transaction functions for the repository. Various functions in the operation of the repository such as... ..optical disk.

The clock 1205 is used to time-stamp various time based conditions for **usage rights** or for metering **usage fees** which may be associated with the digital works. The clock 1205 will have an...repository in order to invoke transactions to gain access to a digital work, or exercise **usage rights** As described above, a repository may be embodied in various forms. The user interface for... ..a right. The requirement for payment of fees is described with

each version of a **usage right** in the **usage rights** language. The recording and reporting of such fees is performed by the credit server. One... ..is a single fee at the time of purchase, after which the purchaser obtains unlimited **rights** to **use** the work as often and for as long as he or she wants. Alternative models... ..server reporting the transaction to minimize transaction processing at the risk of losing some transactions.

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In contrast, parentheses are part of the **usage rights** language. Parentheses are used to group items together in lists. The notation (x*) is used... ..as its value. In some cases, the keyword takes a list of identifiers

In the **usage rights** language, time is specified in an hours:minutes:seconds (or hh:mm:ss) representation. Time... ..or units of time Money units are specified in terms of dollars.

Finally, in the **usage rights** language, various "things" will need to interact with each other. For example, an instance of a **usage right** may specify a bank account, a digital ticket, etc.. Such things need to be identified and are specified herein using the suffix "-ID."

The **Usage Rights** Grammar is listed in its entirety in Figure 15 and is described below.

Grammar element 1501 "**Digital Work Rights** := (**Rights***)" define the **digital** work **rights** as a set of rights. The set of **rights** attached to a **digital** work define how that digital work may be transferred, used, performed or played. A set... ..work and in the case of compound digital works, each of the components of the **digital** work. The **usage rights** of components of a digital may be different.

Grammar element 1502 "**Right** := (**Right-Code** (**Copy-Count**) (**Control-Spec**) (**Time-Spec**) (**Access-Spec**) (**Fee-Spec**))" enumerates the content of a **right**. Each **usage right** must specify a right code. Each right may also optionally specify conditions which must be... ..optional elements, the following defaults apply: copy count equals 1, no time limit on the **use** of the **right**, no access tests or a security level required to **use** the **right** and no fee is required. These conditions will each be described in greater detail below... ..display.

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Grammar element 1505 "**Transport-Code** := (**Copy** (vertical bar) **Transfer** (vertical...making of backup copies to protect the copy owner against catastrophic equipment failure.

Many software **licenses** and also **copyright** law give a copy owner the right to make backup copies to protect against catastrophic... ..management rights enable the making and restoring of backup copies in a way that respects

usage rights, honoring the requirements of both the copy owner and the rights grantor and revenue owner. Backup copies of work descriptions (including **usage rights** and fee data) can be sent under appropriate, protocol and **usage rights** control to other document repositories of sufficiently high security. Further **rights** permit organization of

digital works into folders which themselves are treated as digital works and whose contents may be... ..Edit (Process: Process-ID)) (Next-Copy-Rights : Next-Set-of Rights)" lists a category of **rights** involving the **use** of a digital work to create new works.

* Extract To remove a portion of a... ..vertical bar) Unrestrictable) (Unchargeable (vertical bar) Chargeable))" provides a condition to specify the effect of **usage rights** and fees of parents on the exercise of the **right** A **digital** work is restrictable if higher level d-blocks can impose further restrictions (time specifications and...is restrictable. A right is unchargeable if no more fees can be imposed on the **use** of the **right**. It is chargeable if more fees can be imposed. The default is chargeable.

Time Specification... ..kinds of time specifications. Each specification represents some limitation on the times over which the **usage right** applies. The Expiration-Date specifies the moment at which the **usage right** ends. For example, if the Expiration-Date is "Jan 1, 1995," then the right ends... ..in greater detail below.

In a transaction involving a repository and a document server, some **usage rights** may require that the repository have a particular authorization, that the server have some authorization... ..to be established and authorization obtained before the right could be exercised.

For one-time **usage rights**, a variant on this scheme is to have a digital ticket. A ticket is presented... ..Tickets are digital works and can be copied or transferred between repositories according to their **usage rights**.

In the currently preferred embodiment, a "punched" ticket becomes "unpunched" or "refreshed" when it is... ..that it was punched. Of course, the digital ticket must have the copy or extract **usage rights** attached thereto.

The capability to unpunch a ticket is important in the following cases:

* A... ..a essentially a scheduled modifier of any other fee specification for this version of the **right** of the **digital** work. (It does not refer to children or parent digital works or to other versions...various transactions. The combination of transactions invoked will depend on the specifications assigned for a **usage right**. There are three basic types of transactions, Session Initiation Transactions, Financial Transactions and Usage Transactions... ..establish a valid session. When a valid session is established, transactions corresponding to the various **usage rights** are invoked. Finally, request specific transactions are performed.

Transactions occur between two repositories (one acting...There are some common steps that are part of the semantics of all of the **usage rights** transactions. These steps are referred to as the common transaction steps. There are two sets... ..these are listed here rather than repeating them in the descriptions of all of the **usage rights** transactions.

Transactions can refer to a part of a digital work, a complete digital work... ..Many of the steps here involve determining if certain conditions are satisfied. Recall that each **usage right** may have one or more conditions which must be satisfied before the **right** can be exercised. **Digital** works have parts and parts have parts. Different parts can have different rights and fees... ..has occurred and that a "trusted" session is in place. General tests are tests on **usage rights** associated with the folder containing the work or some containing folder higher in the file...that the copy count does not equal zero, the server checks if the copies in **use** for the requested **right** is greater than or equal to any copy count for the requested right (or relevant... ..copies in use is greater than or equal to the copy count, this indicates that **usage rights** for the version of the transaction have been exhausted. Accordingly, the server terminates the transaction... ..is the sum of the Copy-Counts for all of the versions of the loan **right** of the **digital work**. For a **composite** work, the relevant figure is the minimal such sum of each of the components of... ..of remaining rights, the server terminates the transaction, step 1805.

If Loan is not a **usage right** for the **digital** work or if all copies have not been loaned out or the requested right is... ..decremented by the number of copies involved in the transaction, step 1817. Next, if the **right** had a metered **usage**

fee specification, the server subtracts the elapsed time from the Remaining-Use-Time associated with...adds a level of encryption for no real gain in accountability.

The transaction for specific **usage rights** are now discussed.

The Copy Transaction

A Copy transaction is a request to make one or more independent copies of the work with the same or lesser **usage rights**. Copy differs from the extraction right discussed later in that it refers to entire digital... ..original are transmitted. In any event, the Copy-Count field for the copy of the **digital** work being sent **right** is set to the number-of-copies requested.

- * The requester records the work contents, data, and **usage rights** and stores the work. It records the date and time that the copy was made... ..transaction is a request to move copies of the work with the same or lesser **usage rights** to another repository. In contrast with a copy transaction, this results in removing the work... ..set to the number-of-copies requested.
- * The requester records the work contents, data, and **usage rights** and stores the work.
- * The server decrements its copy count by the number of copies... ..as modified to reflect the loan period.
- * The requester records the digital work contents, data, **usage rights**, and. loan period and stores the work.
- * The server updates the **usage rights** information in the **digital** work to reflect the number of copies loaned out.
- * The repositories perform the common closing transaction steps.
- * The server updates the **usage rights** data for the **digital** work. This may preclude use of the work until it is returned from the loan...makes a copy of the digital work in a place outside of the protection of **usage rights**. As with all rights, this may require particular authorization certificates.

Once a digital work is printed, the publisher and user are bound by whatever **copyright** laws are in effect. However, printing moves the contents outside the control of repositories. For... ..a digital disk is permitted, then that digital copy is outside of the control of **usage rights**. Both the creator and the user know this, although the creator does not necessarily give tacit consent to such copying, which may violate **copyright** laws.

- * The requester sends the server a message to initiate a Print transaction. This message... ..the original are transmitted by the server.
- * The requester records the work contents, data, and **usage rights**. It then creates a one-time key and encrypts the contents file. It saves the...restore operation is intended to be used to compensate for catastrophic media failure. Like all **usage rights**, restoration **rights** can include fees and access tests including authorization checks.
- * The requester sends the server a... ..server retrieves the key from the restoration file. It decrypts the work contents, data, and **usage rights**.
- * The server transmits the requested contents and data to the requester according to the transmission... ..except that it is generalized to the full power of the access specifications of the **usage rights** language.

The Directory transaction has the important role of passing along descriptions of the rights...is set to the number-of-copies requested.

- * The requester records the contents, data, and **usage rights** and stores the work. It records the date and time that new work was made... ..is set to the number-of-copies requested.
- * The requester records the contents, data, and **usage rights** and embeds the work in the destination file.

* The repositories perform the common closing transaction... ..transactions," but they are actually made up of other transactions that repositories already have.

A **usage right** can specify an authorization-ID, which identifies an authorization object (a digital work in a...in the repository where it is no longer accessible as a work for exercising any **usage rights** other than the execution of the software as part of repository operations in carrying out...

Claims: ...controlling the distribution and use of digital works comprising:

means for attaching one or more **usage rights** to a **digital** work, each of said one or more **usage rights** specifying a particular instance of how said digital work may be used or distributed, each of said **usage rights** being capable of specifying a digital ticket, the possession of said digital ticket being a condition on the exercise of a **right** specifying said **digital** ticket;

a plurality of repositories for storing and exchanging digital works, each of said plurality of repositories comprising: storage means for storing digital works, their attached **usage rights**, and **digital** tickets;

transaction processing means having a requester mode of operation for requesting access to a digital work, said request specifying a **usage right**, and a server mode of operation for processing requests to access said requested digital work based on said **usage right** specified in said request, the **usage rights** attached to said **digital** work, and digital tickets associated with said **usage rights**;

a generic ticket agent for punching digital tickets to indicate that an associated **usage right** has been exercised; and a coupling means for coupling to another of said plurality of repositories across a communications medium.

2. The system as recited in Claim 1 wherein a

usage right may specify a special ticket agent for punching a specified digital ticket and said system... ..creating a digital work and a digital ticket for said digital work;

b) attaching a **usage right** to said **digital** work, said **usage right** specifying said **digital** ticket;

c) storing said digital work in a first repository;

d) storing said digital ticket... ..a request to access said digital work to said first repository, said request specifying said **usage right**;

g) said first repository determining if said third repository has said digital ticket;

h) said... ..digital ticket was made.

8. A method for controlling the number of times that a **usage right** attached to a **digital** work may be exercised in a computer controlled system for the distribution of digital works, said method comprising the steps of:

a) creating a digital work;

b) defining a **usage right** for said **digital** work, said **usage right** specifying a **digital** ticket indicating a predetermined number of times that said **usage right** may be exercised;

c) creating said digital ticket with an indicator of said predetermined number;

d) storing said **digital** work, said **usage right** and said **digital** ticket in a first repository;

e) a second repository transmitting a request to access said digital work to said first repository, said request specifying said **usage right**;

- f) said first repository determining if said digital ticket for said **usage right** indicates that said **usage right** has been exercised said predetermined number of times;
- g) if said digital ticket indicates that said **usage right** has been exercised said predetermined number of times, said first repository denying access to said digital work;
- h) if said digital ticket indicates that said **usage right** has not been exercised said predetermined number of times, said first repository granting access to... ..i) said first repository punching said digital ticket to indicate an instance of exercising said **usage right**.

9. A method for controlling the access to digital works in a computer controlled system... ..the steps of:

- a) creating a digital work and a digital ticket;
- b) defining a **usage right** for said **digital** work, said **usage right** specifying said **digital** ticket and a special ticket agent for punching said digital ticket;
- c) storing said digital... ..a request to access said digital work to said first repository, said request specifying said **usage right**;
- f) said

Claims: ...controlling the distribution and use of digital works comprising:

means for associating one or more **usage rights** (704) to a **digital** work (510-513), each of said one or more **usage rights** (704) specifying a particular instance of how said digital work (510-513) may be used... ..the possession of a digital ticket being a condition on the exercise of an associated **usage right**;

a plurality of repositories (201-204), adapted to enforce said **usage rights** and to store and exchange digital works, each of said repositories comprising:

one or more storage means (1207) for storing one or more digital works, their associated **usage rights** and **digital** tickets associated with **usage rights**;

transaction processing means (1200) having a request mode of operation for requesting access to a digital work, said request specifying a **usage right**; and

coupling means (1206) for coupling to another of said plurality of repositories across a communications medium; characterized in that

each of said **usage rights** (704) is capable of specifying a digital ticket;

each transaction processing means further has a... ..mode of operation for processing requests to access said requested digital work based on said **usage right** specified in said request, the **usage rights** associated with said **digital** work, and digital tickets associated with said **usage rights**; wherein access, for exercising the **usage right**, is granted when the corresponding digital ticket is presented for said request; and

each of... ..further comprises a generic ticket agent for punching digital tickets to indicate that an associated **usage right** has been exercised.

2. The system according to claim 1, wherein a **usage right** may specify a special ticket agent for punching a specified digital ticket and said system... ..101) a digital work and a digital ticket for said digital work;

- b) associating a **usage right** to said **digital work**, said **usage right** specifying said **digital ticket**;
- c) storing (102) said digital work in a first repository;
- d) storing said digital... ..a request to access said digital work to said first repository, said request specifying said **usage right**;
- f) said first repository determining (105) if said second repository has said digital ticket;
- g... ..latter

punching said digital ticket and

granting access to said digital work for exercising said **usage right**;

h) if said second repository does not present said digital ticket to said first repository... ..to claim 5, wherein the digital ticket indicates a predetermined number of times that said **usage right** may be exercised, said generic ticket agent punches said digital ticket to indicate an instance of exercising said **usage right**, and said first repository denies access if said digital ticket indicates that the **usage right** has been exercised said predetermined number of times.

11. The method according to claim 5, wherein said **usage right** species a special ticket agent for punching said digital ticket, said first repository forwards said... ..distributed to the second repository together with the second digital work for a fee,

said **usage right** is a copying right permitting to copy said digital work forming an upgrade to said...to 9, wherein the punched digital ticket can not be used again for the same **usage right**.

8/K/3 (Item 3 from file: 348)

EUROPEAN PATENTS

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Country	Number	Kind	Date		
Type		Pub. Date		Kind	Text
Available Text		Language		Update	Word Count
Total Word Count (Document A)					
Total Word Count (Document B)					
Total Word Count (All Documents)					

Specification: ...method as claimed in the accompanying claims.

A system for controlling use and distribution of **composite** digital works is disclosed. A composite digital work is comprised of one or more individual digital works. An individual digital work is any... ..recreated using suitable

rendering means such as software programs. A folder containing one or more **digital works** may be treated as a **composite digital work**. The present invention allows the owner of an individual digital work to attach **usage rights** to their work which are honored when the individual **digital work** is incorporated into a composite **digital work**. The **usage rights** for the work define how the individual digital work may be used and distributed. The aggregation of the **usage rights** of the individual **digital works** of a **composite digital work**, as well as **usage rights** attached to the **composite digital work** as a whole define how the **composite digital work** may be used and distributed.

A digital work is comprised of a description part and a content part. The description part contains control information for the **composite digital work**. The **content** part stores the actual digital data comprising the **composite digital work**. The description part is logically organized in an acyclic structure (e.g. a tree structure.) For a **composite digital work** each node of the acyclic structure represents an individual digital work or some distribution interest... ..A node in the acyclic structure is comprised of an identifier of the individual work, **usage rights** for the individual **digital work** and a pointer to the digital work. In this representation, the description part may naturally be stored separately on a separate medium from the content part.

Composite digital works are stored in repositories. A repository is comprised of a storage means for storing a digital work and its attached **usage rights**, an external interface for receiving and transmitting data, a processor and a clock. A repository... ..requesting access to a digital work. A repository will process each request to access a **composite digital work** by examining the **usage rights** for each individual **digital work** found in the description part. Access is granted if the **composite digital work** if access to each of the individual digital works can be granted. Alternatively, if access... ..the present invention.

Figure 11 is a description tree wherein certain d-blocks have PRINT **usage rights** and is used to illustrate "strict" and "lenient" rules for resolving **usage rights** conflicts.

Figure 12 is a block diagram of the hardware components of a repository as... ..embodiment of the present invention.

Figure 14 is diagram illustrating the basic components of a **usage right** in the currently preferred embodiment of the present invention.

Figure 15 lists the **usage rights** grammar of the currently preferred embodiment of the present invention.

Figure 16 is a flowchart... ..accompanying interpreter (e.g. software) that may be required for recreating the work. The term **composite work** refers to a **digital work** comprised of a collection of other digital works. The term "**usage rights**" or "**rights**" is a term which refers to rights granted to a recipient of a **digital work**. Generally, these **rights** define how a **digital work** can be used and if it can be further distributed. Each **usage right** may have one or more specified conditions which must be satisfied before the right may... ..1, a creator creates a digital work, step 101. The creator will then determine appropriate **usage rights** and fees, attach them to the digital work, and store them in Repository 1, step 102. The determination of appropriate **usage rights** and fees will depend on various economic factors. The digital work remains securely in Repository... ..to obtain a copy of the digital work. The purpose will correspond to a specific **usage right**. In any event, Repository 1 checks the **usage rights** associated with the **digital work** to determine if the access to the digital work may be granted, step 105. The check of the **usage rights** essentially involves a determination of whether a right associated with the access request has been...itself a digital work that can be moved between repositories and subjected to fees and **usage rights** conditions. An authorization may be required by both repositories involved in an access to a... ..a digital work and a repository 415 for accessing digital works stored therein.

STRUCTURE OF DIGITAL WORKS

Usage rights are attached directly to digital works. Thus, it is important to understand the structure of a digital work. The structure of a **digital work**, in particular **composite digital works**, may be naturally organized into an acyclic structure such as a hierarchy. For example, a... ..articles and photographs may represent a node in a hierarchical

structure. Consequently, controls, i.e. **usage rights**, may be ...giving the number of bytes in the work, a rights portion 704 wherein the granted **usage rights** and their status data are maintained, a parent pointer 705 for pointing to a parent... ..the various information associated with a right is maintained. The information required by the respective **usage rights** is described in more detail below. D-blocks form a strict hierarchy. The top d... ..a work has no parent; all other d-blocks have one parent. The relationship of **usage rights** between parent and child d-blocks and how conflicts are resolved is described below.

A... ..right. The status information field 1052 will contain information relating to the state of a **right** and the **digital** work. Such information is indicated below in Table 1. The rights as stored in the are typed to reflect how the files are used. **Usage rights** can be attached to folders so that the folder itself is treated as a digital... ..may be attached to the folder which define how folder contents can be managed.

ATTACHING USAGE RIGHTS TO A DIGITAL WORK

It is fundamental to the present invention that the **usage rights** are treated as part of the digital work. As the digital work is distributed, the scope of the granted **usage rights** will remain the same or may be narrowed. For example, when a digital work is transferred from a document server to a repository, the **usage rights** may include the right to loan a copy for a predetermined period of time (called the original rights). When the repository loans out a copy of the **digital** work, the **usage rights** in the loaner copy (called the next set of rights) could be set to prohibit... ..basic idea is that one cannot grant more rights than they have.

The attachment of **usage rights** into a **digital** work may occur in a variety of ways. If the **usage rights** will be the same for an entire digital work, they could be attached when the... ..deposit in the digital work server. In the case of a digital work having different **usage rights** for the various components, this can be done as the digital work is being created... ..work assembling tool could be utilized which provides for an automated process of attaching the **usage rights**.

As will be described below, when a digital work is copied, transferred or loaned, a... ..transported.

Resolving Conflicting Rights

Because each part of a digital work may have its own **usage rights**, there will be instances where the rights of a "contained part" are different from its... ..supports various combinations of allowing and disallowing access. Moreover, as will be described below, the **usage rights** grammar permits the owner of a digital work to specify if constraints may be imposed... ..by a container part. The manner in which digital works may be sanctioned because of **usage rights** conflicts would be implementation specific and would depend on the nature of the digital works...element 1201 and processor memory 1202. The processing means 1201 provides controller, repository transaction and **usage rights** transaction functions for the repository. Various functions in the operation of the repository such as... ..optical disk.

The clock 1205 is used to time-stamp various time based conditions for **usage rights** or for metering **usage** fees which may be associated with the digital works. The clock 1205 will have an...repository in order to invoke transactions to gain access to a digital work, or exercise **usage rights**. As described above, a repository may be embodied in various forms. The user interface for... ..a right. The requirement for payment of fees is described with each version of a **usage right** in the **usage rights** language. The recording and reporting of such fees is performed by the credit server. One... ..is a single fee at the time of purchase, after which the purchaser obtains unlimited **rights** to use the work as often and for as long as he or she wants. Alternative models... ..server reporting the transaction to minimize transaction processing at the risk of losing some transactions.

USAGE RIGHTS LANGUAGE

The present invention uses statements in a high level "**usage rights** language" to define **rights** associated with **digital** works and their parts. **Usage rights** statements are interpreted by repositories and are used to determine what

transactions can be successfully... it can be used, and what fees (if any) are to be charged for that **use**. Once the **usage rights** statements are generated, they are encoded in a suitable form for accessing during the processing of transactions.

Defining **usage rights** in terms of a language in combination with the hierarchical representation of a digital work... will be described in greater detail below with respect to the language grammar elements.

The **usage rights** language is based on the grammar described below. A grammar is a convenient means for... optional items. Note that brackets, bars and braces are used to describe the language of **usage rights** sentences but do not appear in actual sentences in the language.

In contrast, parentheses are part of the

usage rights language. Parentheses are used to group items together in lists. The notation (x*) is used... as its value. In some cases, the keyword takes a list of identifiers.

In the **usage rights** language, time is specified in an hours:minutes:seconds (or hh:mm:ss) representation. Time... or units of time Money units are specified in terms of dollars.

Finally, in the **usage rights** language, various "things" will need to interact with each other. For example, an instance of a **usage right** may specify a bank account, a digital ticket, etc.. Such things need to be identified and are specified herein using the suffix "-ID."

The **Usage Rights Grammar** is listed in its entirety in Figure 15 and is described below.

Grammar element 1501 "**Digital Work Rights: = (Rights*)**" define the **digital work rights** as a set of rights. The set of **rights** attached to a **digital** work define how that digital work may be transferred, used, performed or played. A set... work and in the case of compound digital works, each of the components of the **digital** work. The **usage rights** of components of a digital may be different.

Grammar element 1502 "**Right : = (Right-Code (Copy-Count) (Control-Spec) (Time-Spec) (Access-Spec) (Fee-Spec))**" enumerates the content of a **right**. Each **usage right** must specify a right code. Each right may also optionally specify conditions which must be... optional elements, the following defaults apply: copy count equals 1, no time limit on the **use** of the **right**, no access tests or a security level required to **use** the **right** and no fee is required. These conditions will each be described in greater detail below... display.

* Print To render the work in a medium that is not further protected by **usage rights**, such as printing on paper.

Grammar element 1505 "**Transport-Code := (Copy (vertical bar) Transfer (vertical...making of backup copies to protect the copy owner against catastrophic equipment failure.**

Many software **licenses** and also **copyright** law give a copy owner the right to make backup copies to protect against catastrophic... management rights enable the making and restoring of backup copies in a way that respects **usage rights**, honoring the requirements of both the copy owner and the rights grantor and revenue owner. Backup copies of work descriptions (including **usage rights** and fee data) can be sent under appropriate protocol and **usage rights** control to other document repositories of sufficiently high security. Further **rights** permit organization of **digital** works into folders which themselves are treated as digital works and whose contents may be... Edit(Process: Process-ID)) (Next-Copy-Rights : Next-Set-of Rights)" lists a category of **rights** involving the **use** of a digital work to create new works.

* Extract To remove a portion of a... vertical bar) Unrestrictable) (Unchargeable (vertical bar) Chargeable))" provides a condition to specify the effect of **usage rights** and fees of parents on the exercise of the **right**. A **digital** work is restrictable if higher level d-blocks can impose further restrictions (time specifications and...is restrictable. A

right is unchargeable if no more fees can be imposed on the **use** of the **right**. It is chargeable if more fees can be imposed. The default is chargeable.

Time Specification... ..kinds of time specifications. Each specification represents some limitation on the times over which the **usage right** applies. The Expiration-Date specifies the moment at which the **usage right** ends. For example, if the Expiration-Date is "Jan 1, 1995," then the right ends... ..in greater detail below.

In a transaction involving a repository and a document server, some **usage rights** may require that the repository have a particular authorization, that the server have some authorization... ..to be established and authorization obtained before the right could be exercised.

For one-time **usage rights**, a variant on this scheme is to have a digital ticket. A ticket is presented or transferred between repositories according to their **usage rights**.

In the currently preferred embodiment, a "punched" ticket becomes "unpunched" or "refreshed" when it is... ..that it was punched. Of course, the digital ticket must have the copy or extract **usage rights** attached thereto.

The capability to unpunch a ticket is important in the following cases:

* A... ..a essentially a scheduled modifier of any other fee specification for this version of the **right** of the **digital** work. (It does not refer to children or parent digital works or to other versions...various transactions. The combination of transactions invoked will depend on the specifications assigned for a **usage right**. There are three basic types of transactions, Session Initiation Transactions, Financial Transactions and Usage Transactions... ..establish a valid session. When a valid session is established, transactions corresponding to the various **usage rights** are invoked. Finally, request specific transactions are performed.

Transactions occur between two repositories (one acting...There are some common steps that are part of the semantics of all of the **usage rights** transactions. These steps are referred to as the common transaction steps. There are two sets... ..these are listed here rather than repeating them in the descriptions of all of the **usage rights** transactions.

Transactions can refer to a part of a digital work, a complete digital work... ..Many of the steps here involve determining if certain conditions are satisfied. Recall that each **usage right** may have one or more conditions which must be satisfied before the **right** can be exercised. **Digital** works have parts and parts have parts. Different parts can have different rights and fees... ..has occurred and that a "trusted" session is in place. General tests are tests on **usage rights** associated with the folder containing the work or some containing folder higher in the file...that the copy count does not equal zero, the server checks if the copies in **use** for the requested **right** is greater than or equal to any copy count for the requested right (or relevant... ..copies in use is greater than or equal to the copy count, this indicates that **usage rights** for the version of the transaction have been exhausted. Accordingly, the server terminates the transaction... ..is the sum of the Copy-Counts for all of the versions of the loan **right** of the **digital work**. For a **composite** work, the relevant figure is the minimal such sum of each of the components of... ..of remaining rights, the server terminates the transaction, step 1805.

If Loan is not a **usage right** for the **digital** work or if all copies have not been loaned out or the requested right is... ..decremented by the number of copies involved in the transaction, step 1817. Next, if the **right** had a metered **usage** fee specification, the server subtracts the elapsed time from the Remaining-Use-Time associated with...adds a level of encryption for no real gain in accountability.

The transaction for specific **usage rights** are now discussed.

The Copy Transaction

A Copy transaction is a request to make one or more independent copies of the work with the same or lesser **usage rights**. Copy differs from the extraction right discussed later in that it refers to entire digital... ..original are

transmitted. In any event, the Copy-Count field for the copy of the **digital** work being sent **right** is set to the number-of-copies requested.

- * The requester records the work contents, data, and **usage rights** and stores the work. It records the date and time that the copy was made... ..transaction is a request to move copies of the work with the same or lesser **usage rights** to another repository. In contrast with a copy transaction, this results in removing the work... ..set to the number-of-copies requested.
- * The requester records the work contents, data, and **usage rights** and stores the work.
- * The server decrements its copy count by the number of copies... ..as modified to reflect the loan period.
- * The requester records the digital work contents, data, **usage rights**, and loan period and stores the work.
- * The server updates the **usage rights** information in the **digital** work to reflect the number of copies loaned out.
- * The repositories perform the common closing transaction steps.
- * The server updates the **usage rights** data for the **digital** work. This may preclude use of the work until it is returned from the loan...makes a copy of the digital work in a place outside of the protection of **usage rights**. As with all rights, this may require particular authorization certificates.

Once a digital work is printed, the publisher and user are bound by whatever **copyright** laws are in effect. However, printing moves the contents outside the control of repositories. For... ..a digital disk is permitted, then that digital copy is outside of the control of **usage rights**. Both the creator and the user know this, although the creator does not necessarily give tacit consent to such copying, which may violate **copyright** laws.

- * The requester sends the server a message to initiate a Print transaction. This message... ..the original are transmitted by the server.
- * The requester records the work contents, data, and **usage rights**. It then creates a one-time key and encrypts the contents file. It saves the...restore operation is intended to be used to compensate for catastrophic media failure. Like all **usage rights**, restoration **rights** can include fees and access tests including authorization checks.
- * The requester sends the server a... ..server retrieves the key from the restoration file. It decrypts the work contents, data, and **usage rights**.
- * The server transmits the requested contents and data to the requester according to the transmission... ..except that it is generalized to the full power of the access specifications of the **usage rights** language.

The Directory transaction has the important role of passing along descriptions of the rights...is set to the number-of-copies requested.

- * The requester records the contents, data, and **usage rights** and stores the work. It records the date and time that new work was made... ..is set to the number-of-copies requested.
- * The requester records the contents, data, and **usage rights** and embeds the work in the destination file.
- * The repositories perform the common closing transaction... ..transactions," but they are actually made up of other transactions that repositories already have.

A **usage right** can specify an authorization-ID, which identifies an authorization object (a digital work in a...in the repository where it is no longer accessible as a work for exercising any **usage rights** other than the execution of the software as part of repository operations in carrying out...

8/K/4 (Item 4 from file: 348)

EUROPEAN PATENTS

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Country	Number	Kind	Date
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Abstract ...and distribution of digital works, in which the owner of a digital work (101) attaches **usage rights** (102) to that work. **Usage rights** are granted by the "owner" of a digital work to "buyers" of the **digital** work. The **usage rights** define how a **digital** work may be used and further distributed by the buyer. Each right has associated with it certain optional specifications which outline the conditions and fees upon which the **right** may be exercised. **Digital** works are stored in a repository. A repository will process each request (103,104) to access a digital work by examining the corresponding **usage rights** (105). **Digital** work playback devices, coupled to the repository containing the work, are used to play, display... ..Access is denied (106) or granted (107) depending whether the requesting repository has the required **usage rights**. (see image in original document)

Type	Pub. Date	Kind	Text
Available Text	Language	Update	Word Count
Total Word Count (Document A)			
Total Word Count (Document B)			
Total Word Count (All Documents)			

Specification: ...A1

The present invention relates to the field of distribution and **usage rights** enforcement for digitally encoded works.

A fundamental issue facing the publishing and information industries as...as software programs. The present invention allows the owner of a digital work to attach **usage rights** to the work. The **usage rights** for the work define how it may be used and distributed. Digital works and their **usage rights** are stored in a secure repository. Digital works may only be accessed by other secure repositories.

Usage rights for a **digital** work are embodied in a flexible and extensible **usage rights** grammar. Conceptually, a **right** in the **usage rights** grammar is a label attached to a predetermined behavior and conditions to exercising the right... ..repository is comprised of a storage means for storing a digital work and its attached **usage rights**, an external interface for receiving and transmitting data, a processor and a clock. A repository... ..repository will process each request to access a digital work by examining the work's **usage rights**. For example, in a request to make a copy of a digital work, the digital... ..can be made. Before transporting the digital work, any specified changes to the set of **usage rights** in the copy are attached to the copy of the digital work.

Repositories communicate utilizing... ..the present invention.

Figure 11 is a description tree wherein certain d-blocks have **PRINT usage rights** and is used to illustrate "strict" and "lenient" rules for resolving **usage rights** conflicts.

Figure 12 is a block diagram of the hardware components of a repository as... ..embodiment of the present invention.

Figure 14 is diagram illustrating the basic components of a **usage right** in the currently preferred embodiment of the present invention.

Figure 15 lists the **usage rights** grammar of the currently preferred embodiment of the present invention.

Figure 16 is a flowchart... accompanying interpreter (e.g. software) that may be required for recreating the work. The term **composite work** refers to a **digital work** comprised of a collection of other digital works. The term "**usage rights**" or "**rights**" is a term which refers to rights granted to a recipient of a **digital work**. Generally, these **rights** define how a **digital work** can be used and if it can be further distributed. Each **usage right** may have one or more specified conditions which must be satisfied before the right may... 1, a creator creates a digital work, step 101. The creator will then determine appropriate **usage rights** and fees, attach them to the digital work, and store them in Repository 1, step 102. The determination of appropriate **usage rights** and fees will depend on various economic factors. The digital work remains securely in Repository... to obtain a copy of the digital work. The purpose will correspond to a specific **usage right**. In any event, Repository 1 checks the **usage rights** associated with the **digital work** to determine if the access to the digital work may be granted, step 105. The check of the **usage rights** essentially involves a determination of whether a right associated with the access request has been... itself a digital work that can be moved between repositories and subjected to fees and **usage rights** conditions. An authorization may be required by both repositories involved in an access to a... a digital work and a repository 415 for accessing digital works stored therein.

STRUCTURE OF DIGITAL WORKS

Usage rights are attached directly to digital works. Thus, it is important to understand the structure of a digital work. The structure of a **digital work**, in particular **composite digital works**, may be naturally organized into an acyclic structure such as a hierarchy. For example, a... articles and photographs may represent a node in a hierarchical structure. Consequently, controls, i.e. **usage rights**, may be placed on each node by the creator. By enabling control and fee billing... giving the number of bytes in the work, a rights portion 704 wherein the granted **usage rights** and their status data are maintained, a parent pointer 705 for pointing to a parent... the various information associated with a right is maintained. The information required by the respective **usage rights** is described in more detail below. D-blocks form a strict hierarchy. The top d... a work has no parent; all other d-blocks have one parent. The relationship of **usage rights** between parent and child d-blocks and how conflicts are resolved is described below.

A... right. The status information field 1052 will contain information relating to the state of a **right** and the **digital work**. Such information is indicated below in Table 1. The rights as stored in the... in alphabetical order. The digital works are typed to reflect how the files are used. **Usage rights** can be attached to folders so that the folder itself is treated as a digital... may be attached to the folder which define how folder contents can be managed.

ATTACHING USAGE RIGHTS TO A DIGITAL WORK

It is fundamental to the present invention that the **usage rights** are treated as part of the digital work. As the digital work is distributed, the scope of the granted **usage rights** will remain the same or may be narrowed. For example, when a digital work is transferred from a document server to a repository, the **usage rights** may include the right to loan a copy for a predetermined period of time (called the original rights). When the repository loans out a copy of the **digital work**, the **usage rights** in the loaner copy (called the next set of rights) could be set to prohibit... basic idea is that one cannot grant more rights than they have.

The attachment of **usage rights** into a **digital work** may occur in a variety of ways. If the **usage rights** will be the same for an entire digital work, they could be attached when the... deposit in the digital work server. In the case of a digital work having different **usage rights** for the various components, this can be done as the digital work is being created... work assembling tool could be utilized which provides for an automated process of attaching the **usage rights**.

As will be described below, when a digital work is copied, transferred or loaned, a... transported.

Resolving Conflicting Rights

Because each part of a digital work may have its own **usage rights**, there will be instances where the rights of a "contained part" are different from its... ..supports various combinations of allowing and disallowing access. Moreover, as will be described below, the **usage rights** grammar permits the owner of a digital work to specify if constraints may be imposed... ..by a container part. The manner in which digital works may be sanctioned because of **usage rights** conflicts would be implementation specific and would depend on the nature of the digital works... ..element 1201 and processor memory 1202. The processing means 1201 provides controller, repository transaction and **usage rights** transaction functions for the repository. Various functions in the operation of the repository such as... ..optical disk.

The clock 1205 is used to time-stamp various time based conditions for **usage rights** or for metering **usage** fees which may be associated with the digital works. The clock 1205 will have an...repository in order to invoke transactions to gain access to a digital work, or exercise **usage rights**. As described above, a repository may be embodied in various forms. The user interface for... ..a right. The requirement for payment of fees is described with each version of a **usage right** in the **usage rights** language. The recording and reporting of such fees is performed by the credit server. One... ..is a single fee at the time of purchase, after which the purchaser obtains unlimited **rights** to **use** the work as often and for as long as he or she wants. Alternative models... ..server reporting the transaction to minimize transaction processing at the risk of losing some transactions.

USAGE RIGHTS LANGUAGE

The present invention uses statements in a high level "**usage rights** language" to define **rights** associated with **digital** works and their parts. **Usage rights** statements are interpreted by repositories and are used to determine what transactions can be successfully... ..it can be used, and what fees (if any) are to be charged for that **use**. Once the **usage rights** statements are generated, they are encoded in a suitable form for accessing during the processing of transactions.

Defining **usage rights** in terms of a language in combination with the hierarchical representation of a digital work... ..will be described in greater detail below with respect to the language grammar elements.

The **usage rights** language is based on the grammar described below. A grammar is a convenient means for... ..optional items. Note that brackets, bars and braces are used to describe the language of **usage rights** sentences but do not appear in actual sentences in the language.

In contrast, parentheses are part of the **usage rights** language. Parentheses are used to group items together in lists. The notation (x*) is used... ..as its value. In some cases, the keyword takes a list of identifiers.

In the **usage rights** language, time is specified in an hours:minutes:seconds (or hh:mm:ss) representation. Time... ..or units of time Money units are specified in terms of dollars.

Finally, in the **usage rights** language, various "things" will need to interact with each other. For example, an instance of a **usage right** may specify a bank account, a digital ticket, etc.. Such things need to be identified and are specified herein using the suffix "-ID."

The **Usage Rights** Grammar is listed in its entirety in Figure 15 and is described below.

Grammar element 1501 "**Digital Work Rights: = (Rights*)**" define the **digital** work

rights as a set of rights. The set of

rights attached to a **digital** work define how that digital work may be transferred, used, performed or played. A set... ..work and in the case of compound digital works, each of the components of the **digital** work. The **usage rights** of components of a digital may be different.

Grammar element 1502 "Right := (Right-Code (Copy-Count) (Control-Spec) (Time-Spec) (Access-Spec) (Fee-Spec))" enumerates the content of a **right**. Each **usage right** must specify a right code. Each right may also optionally specify conditions which must be... ..optional elements, the following defaults apply: copy count equals 1, no time limit on the **use** of the **right**, no access tests or a security level required to **use** the **right** and no fee is required. These conditions will each be described in greater detail below... ..display.

* Print To render the work in a medium that is not further protected by **usage rights**, such as printing on paper.

Grammar element 1505 "Transport-Code := (Copy (vertical bar) Transfer (vertical... ..making of backup copies to protect the copy owner against catastrophic equipment failure.

Many software **licenses** and also **copyright** law give a copy owner the right to make backup copies to protect against catastrophic... ..management rights enable the making and restoring of backup copies in a way that respects **usage rights**, honoring the requirements of both the copy owner and the rights grantor and revenue owner. Backup copies of work descriptions (including **usage rights** and fee data) can be sent under appropriate protocol and **usage rights** control to other document repositories of sufficiently high security. Further **rights** permit organization of **digital** works into folders which themselves are treated as digital works and whose contents may be... ..Edit (Process: Process-ID)) (Next-Copy-Rights : Next-Set-of Rights)" lists a category of **rights** involving the **use** of a digital work to create new works.

* Extract To remove a portion of a... ..vertical bar) Unrestrictable) (Unchargeable (vertical bar) Chargeable))" provides a condition to specify the effect of **usage rights** and fees of parents on the exercise of the **right**. A **digital** work is restrictable if higher level d-blocks can impose further restrictions (time specifications and... ..is restrictable. A right is unchargeable if no more fees can be imposed on the **use** of the **right**. It is chargeable if more fees can be imposed. The default is chargeable.

Time Specification... ..kinds of time specifications. Each specification represents some limitation on the times over which the **usage right** applies. The Expiration-Date specifies the moment at which the **usage right** ends. For example, if the Expiration-Date is "Jan 1, 1995," then the right ends... ..in greater detail below.

In a transaction involving a repository and a document server, some **usage rights** may require that the repository have a particular authorization, that the server have some authorization... ..to be established and authorization obtained before the right could be exercised.

For one-time **usage rights**, a variant on this scheme is to have a digital ticket. A ticket is presented... ..Tickets are digital works and can be copied or transferred between repositories according to their **usage rights**.

In the currently preferred embodiment, a "punched" ticket becomes "unpunched" or "refreshed" when it is... ..that it was punched. Of course, the digital ticket must have the copy or extract **usage rights** attached thereto.

The capability to unpunch a ticket is important in the following cases:

* A... ..a essentially a scheduled modifier of any other fee specification for this version of the **right** of the **digital** work. (It does not refer to children or parent digital works or to other versions...various transactions. The combination of transactions invoked will depend on the specifications assigned for a **usage right**. There are three basic types of transactions, Session Initiation Transactions, Financial Transactions and Usage Transactions... ..establish a valid session. When a valid session is established, transactions corresponding to the various **usage rights** are invoked. Finally, request specific transactions are performed.

Transactions occur between two repositories (one acting... ..There are some common steps that are part of the semantics of all of the **usage rights** transactions. These steps are referred to as the common transaction steps. There are two sets... ..these are listed here rather than repeating them in the descriptions of all of the **usage rights** transactions.

Transactions can refer to a part of a digital work, a complete digital work... Many of the steps here involve determining if certain conditions are satisfied. Recall that each **usage right** may have one or more conditions which must be satisfied before the **right** can be exercised. **Digital** works have parts and parts have parts. Different parts can have different rights and fees... has occurred and that a "trusted" session is in place. General tests are tests on **usage rights** associated with the folder containing the work or some containing folder higher in the file... that the copy count does not equal zero, the server checks if the copies in **use** for the requested **right** is greater than or equal to any copy count for the requested right (or relevant... copies in use is greater than or equal to the copy count, this indicates that **usage rights** for the version of the transaction have been exhausted. Accordingly, the server terminates the transaction... is the sum of the Copy-Counts for all of the versions of the loan **right** of the **digital work**. For a **composite** work, the relevant figure is the minimal such sum of each of the components of... of remaining rights, the server terminates the transaction, step 1805.

If Loan is not a **usage right** for the **digital** work or if all copies have not been loaned out or the requested right is... decremented by the number of copies involved in the transaction, step 1817. Next, if the **right** had a metered **usage** fee specification, the server subtracts the elapsed time from the Remaining-Use-Time associated with... adds a level of encryption for no real gain in accountability.

The transaction for specific **usage rights** are now discussed.

...to make one or more independent copies of the work with the same or lesser **usage rights**. Copy differs from the extraction right discussed later in that it refers to entire digital... original are transmitted. In any event, the Copy-Count field for the copy of the **digital** work being sent **right** is set to the number-of-copies requested.

* The requester records the work contents, data, and **usage rights** and stores the work. It records the date and time that the copy was made... transaction is a request to move copies of the work with the same or lesser **usage rights** to another repository. In contrast with a copy transaction, this results in removing the work... set to the number-of-copies requested.

* The requester records the work contents, data, and **usage rights** and stores the work.

* The server decrements its copy count by the number of copies... as modified to reflect the loan period.

* The requester records the digital work contents, data, **usage rights**, and loan period and stores the work.

* The server updates the **usage rights** information in the **digital** work to reflect the number of copies loaned out.

* The repositories perform the common closing transaction steps.

* The server updates the **usage rights** data for the **digital** work. This may preclude use of the work until it is returned from the loan... makes a copy of the digital work in a place outside of the protection of **usage rights**. As with all rights, this may require particular authorization certificates.

Once a digital work is printed, the publisher and user are bound by whatever **copyright** laws are in effect. However, printing moves the contents outside the control of repositories. For... a digital disk is permitted, then that digital copy is outside of the control of **usage rights**. Both the creator and the user know this, although the creator does not necessarily give tacit consent to such copying, which may violate **copyright** laws.

* The requester sends the server a message to initiate a Print transaction. This message... the original are transmitted by the server.

* The requester records the work contents, data, and **usage rights**. It then creates a one-time key and encrypts the contents file. It saves the... restore operation is intended to be used to compensate for catastrophic media failure. Like all **usage rights**, restoration **rights** can include fees and access tests including authorization checks.

* The requester sends the server a... ..server retrieves the key from the restoration file. It decrypts the work contents, data, and **usage rights**.

* The server transmits the requested contents and data to the requester according to the transmission... ..except that it is generalized to the full power of the access specifications of the **usage rights** language.

The Directory transaction has the important role of passing along descriptions of the rights... ..is set to the number-of-copies requested.

* The requester records the contents, data, and **usage rights** and stores the work. It records the date and time that new work was made... ..is set to the number-of-copies requested.

* The requester records the contents, data, and **usage rights** and embeds the work in the destination file.

* The repositories perform the common closing transaction... ..transactions," but they are actually made up of other transactions that repositories already have.

A **usage right** can specify an authorization-ID, which identifies an authorization object (a digital work in a... ..in the repository where it is no longer accessible as a work for exercising any **usage rights** other than the execution of the software as part of repository operations in carrying out...

Specification: ...B1

The present invention relates to the field of distribution and **usage rights** enforcement for digitally encoded works.

A fundamental issue facing the publishing and information industries as... ..as software programs. The present invention allows the owner of a digital work to attach **usage rights** to the work. The **usage rights** for the work define how it may be used and distributed. Digital works and their **usage rights** are stored in a secure repository. Digital works may only be accessed by other secure repositories.

Usage rights for a **digital work** are embodied in a flexible and extensible **usage rights** grammar. Conceptually, a **right** in the **usage rights** grammar is a label attached to a predetermined behavior and conditions to exercising the right... ..repository is comprised of a storage means for storing a digital work and its attached **usage rights**, an external interface for receiving and transmitting data, a processor and a clock. A repository... ..repository will process each request to access a digital work by examining the work's **usage rights**. For example, in a request to make a copy of a digital work, the digital... ..can be made. Before transporting the digital work, any specified changes to the set of **usage rights** in the copy are attached to the copy of the digital work.

Repositories communicate utilizing... ..the present invention.

Figure 11 is a description tree wherein certain d-blocks have PRINT **usage rights** and is used to illustrate "strict" and "lenient" rules for resolving **usage rights** conflicts.

Figure 12 is a block diagram of the hardware components of a repository as... ..embodiment of the present invention.

Figure 14 is diagram illustrating the basic components of a **usage right** in the currently preferred embodiment of the present invention.

Figure 15 lists the **usage rights** grammar of the currently preferred embodiment of the present invention.

Figure 16 is a flowchart... ..accompanying interpreter (e.g. software) that may be required for recreating the work. The term **composite work** refers to a **digital work** comprised of a collection of other digital works. The term "**usage rights**" or "**rights**" is a term which refers to rights granted to a recipient of a **digital work**. Generally, these **rights** define how a **digital work** can be used and if it can be further distributed. Each **usage right** may have one or more specified conditions which must be satisfied before the right may... ..1, a creator creates a digital work, step 101.

The creator will then determine appropriate **usage rights** and fees, attach them to the digital work, and store them in Repository 1, step 102. The determination of appropriate **usage rights** and fees will depend on various economic factors. The digital work remains securely in Repository... ..to obtain a copy of the digital work. The purpose will correspond to a specific **usage right**. In any event, Repository 1 checks the **usage rights** associated with the **digital** work to determine if the access to the digital work may be granted, step 105. The check of the **usage rights** essentially involves a determination of whether a right associated with the access request has been... ..itself a digital work that can be moved between repositories and subjected to fees and **usage rights** conditions. An authorization may be required by both repositories involved in an access to a... ..a digital work and a repository 415 for accessing digital works stored therein.

STRUCTURE OF DIGITAL WORKS

Usage rights are attached directly to digital works. Thus, it is important to understand the structure of a digital work. The structure of a **digital work**, in particular **composite digital works**, may be naturally organized into an acyclic structure such as a hierarchy. For example, a... ..articles and photographs may represent a node in a hierarchical structure. Consequently, controls, i.e. **usage rights**, may be placed on each node by the creator. By enabling control and fee billing... ..giving the number of bytes in the work, a rights portion 704 wherein the granted **usage rights** and their status data are maintained, a parent pointer 705 for pointing to a parent... ..the various information associated with a right is maintained. The information required by the respective **usage rights** is described in more detail below. ...a work has no parent; all other d-blocks have one parent. The relationship of **usage rights** between parent and child d-blocks and how conflicts are resolved is described below.

A... ..right. The status information field 1052 will contain information relating to the state of a **right** and the **digital** work. Such information is indicated below in Table 1. The rights as stored in the... ..in alphabetical order. The digital works are typed to reflect how the files are used. **Usage rights** can be attached to folders so that the folder itself is treated as a digital... ..may be attached to the folder which define how folder contents can be managed.

ATTACHING USAGE RIGHTS TO A DIGITAL WORK

It is fundamental to the present invention that the **usage rights** are treated as part of the digital work. As the digital work is distributed, the scope of the granted **usage rights** will remain the same or may be narrowed. For example, when a digital work is transferred from a document server to a repository, the **usage rights** may include the right to loan a copy for a predetermined period of time (called the original rights). When the repository loans out a copy of the **digital** work, the **usage rights** in the loaner copy (called the next set of rights) could be set to prohibit... ..basic idea is that one cannot grant more rights than they have.

The attachment of **usage rights** into a **digital** work may occur in a variety of ways. If the **usage rights** will be the same for an entire digital work, they could be attached when the... ..deposit in the digital work server. In the case of a digital work having different **usage rights** for the various components, this can be done as the digital work is being created... ..work assembling tool could be utilized which provides for an automated process of attaching the **usage rights**.

As will be described below, when a digital work is copied, transferred or loaned, a... ..transported.

Resolving Conflicting Rights

Because each part of a digital work may have its own **usage rights**, there will be instances where the rights of a "contained part" are different from its... ..supports various combinations of allowing and disallowing access. Moreover, as will be described below, the **usage rights** grammar permits the owner of a digital work to specify if constraints may be imposed... ..by a container part. The manner in which digital works may be sanctioned because of **usage rights** conflicts would be implementation specific and would depend on the nature of the digital works... ..element 1201 and processor memory 1202. The processing means 1201 provides controller, repository transaction

and **usage rights** transaction functions for the repository. Various functions in the operation of the repository such as... ..optical disk.

The clock 1205 is used to time-stamp various time based conditions for **usage rights** or for metering **usage** fees which may be associated with the digital works. The clock 1205 will have an... ..repository in order to invoke transactions to gain access to a digital work, or exercise **usage rights**. As described above, a repository may be embodied in various forms. The user interface for... ..a right. The requirement for payment of fees is described with each version of a **usage right** in the **usage rights** language. The recording and reporting of such fees is performed by the credit server. One... ..is a single fee at the time of purchase, after which the purchaser obtains unlimited **rights** to **use** the work as often and for as long -as he or she wants. Alternative models... ..server reporting the transaction to minimize transaction processing at the risk of losing some transactions.

USAGE RIGHTS LANGUAGE

The present invention uses statements in a high level "**usage rights** language" to define **rights** associated with **digital** works and their parts. **Usage rights** statements are interpreted by repositories and are used to determine what transactions can be successfully... ..it can be used, and what fees (if any) are to be charged for that **use**. Once the **usage rights** statements are generated, they are encoded in a suitable form for accessing during the processing of transactions.

Defining **usage rights** in terms of a language in combination with the hierarchical representation of a digital work... ..will be described in greater detail below with respect to the language grammar elements.

The **usage rights** language is based on the grammar described below. A grammar is a convenient means for... ..optional items. Note that brackets, bars and braces are used to describe the language of **usage rights** sentences but do not appear in actual sentences in the language.

In contrast, parentheses are part of the **usage rights** language. Parentheses are used to group items together in lists. The notation (x*) is used... ..as its value. In some cases, the keyword takes a list of identifiers.

In the **usage rights** language, time is specified in an hours:minutes:seconds (or hh:mm:ss) representation. Time... ..or units of time Money units are specified in terms of dollars.

Finally, in the **usage rights** language, various "things" will need to interact with each other. For example, an instance of a **usage right** may specify a bank account, a digital ticket, etc.. Such things need to be identified and are specified herein using the suffix "-ID."

The **Usage Rights** Grammar is listed in its entirety in Figure 15 and is described below.

Grammar element 1501 "**Digital Work Rights: = (Rights*)**" define the **digital** work **rights** as a set of rights The set of **rights** attached to a **digital** work define how that digital work may be transferred, used, performed or played. A set... ..work and in the case of compound digital works, each of the components of the **digital** work. The **usage rights** of components of a digital may be different.

Grammar element 1502 "**Right : = (Right-Code (Copy-Count) (Control-Spec) (Time-Spec) (Access-Spec) (Fee-Spec))**" enumerates the content of a **right**. Each **usage right** must specify a right code. Each right may also optionally specify conditions which must be... ..optional elements, the following defaults apply: copy count equals 1, no time limit on the **use** of the **right**, no access tests or a security level required to **use** the **right** and no fee is required. These conditions will each be described in greater detail below... ..display.

* Print To render the work in a medium that is not further protected by **usage rights**, such as printing on paper.

Grammar element 1505 "Transport-Code : = (Copy (vertical bar) Transfer (vertical... ..making of backup copies to protect the copy owner against catastrophic equipment failure.

Many software **licenses** and also **copyright** law give a copy owner the right to make backup copies to protect against catastrophic... ..management rights enable the making and restoring of backup copies in a way that respects **usage rights**, honoring the requirements of both the copy owner and the rights grantor and revenue owner. Backup copies of work descriptions (including **usage rights** and fee data) can be sent under appropriate protocol and **usage rights** control to other document repositories of sufficiently high security. Further **rights** permit organization of **digital** works into folders which themselves are treated as digital works and whose contents may be... ..Edit (Process: Process-ID)) (Next-Copy-Rights : Next-Set-of Rights)" lists a category of **rights** involving the **use** of a digital work to create new works.

* Extract To remove a portion of a...vertical bar) Unrestrictable) (Unchargeable (vertical bar) Chargeable))" provides a condition to specify the effect of **usage rights** and fees of parents on the exercise of the **right**. A **digital** work is restrictable if higher level d-blocks can impose further restrictions (time specifications and... ..is restrictable. A right is unchargeable if no more fees can be imposed on the **use** of the **right**. It is chargeable if more fees can be imposed. The default is chargeable.

Time Specification... ..kinds of time specifications. Each specification represents some limitation on the times over which the **usage right** applies. The Expiration-Date specifies the moment at which the **usage right** ends. For example, if the Expiration-Date is "Jan 1, 1995," then the right ends... ..in greater detail below.

In a transaction involving a repository and a document server, some **usage rights** may require that the repository have a particular authorization, that the server have some authorization... ..to be established and authorization obtained before the right could be exercised.

For one-time **usage rights**, a variant on this scheme is to have a digital ticket. A ticket is presented... ..Tickets are digital works and can be copied or transferred between repositories according to their **usage rights**.

In the currently preferred embodiment, a "punched" ticket becomes "unpunched" or "refreshed" when it is... ..that it was punched. Of course, the digital ticket must have the copy or extract **usage rights** attached thereto.

The capability to unpunch a ticket is important in the following cases:

* A... ..a essentially a scheduled modifier of any other fee specification for this version of the **right** of the **digital** work. (It does not refer to children or parent digital works or to other versions... ..various transactions. The combination of transactions invoked will depend on the specifications assigned for a **usage right**. There are three basic types of transactions, Session Initiation Transactions, Financial Transactions and Usage Transactions... ..establish a valid session. When a valid session is established, transactions corresponding to the various **usage rights** are invoked. Finally, request specific transactions are performed.

Transactions occur between two repositories (one acting... ..There are some common steps that are part of the semantics of all of the **usage rights** transactions. These steps are referred to as the common transaction steps. There are two sets... ..these are listed here rather than repeating them in the descriptions of all of the **usage rights** transactions.

Transactions can refer to a part of a digital work, a complete digital work... ..Many of the steps here involve determining if certain conditions are satisfied. Recall that each **usage right** may have one or more conditions which must be satisfied before the **right** can be exercised. **Digital** works have parts and parts have parts. Different parts can have different rights and fees... ..has occurred and that a "trusted" session is in place. General tests are tests on **usage rights** associated with the folder containing the work or some containing folder higher in the file... ..that the copy count does not equal zero, the server checks if the copies in **use** for the requested **right** is greater than or equal to any copy count for the requested right (or relevant... ..copies in use is greater than or equal to the copy count, this

indicates that **usage rights** for the version of the transaction have been exhausted. Accordingly, the server terminates the transaction... ..is the sum of the Copy-Counts for all of the versions of the loan **right** of the **digital work**. For a **composite** work, the relevant figure is the minimal such sum of each of the components of... ..of remaining rights, the server terminates the transaction, step 1805.

If Loan is not a **usage right** for the **digital** work or if all copies have not been loaned out or the requested right is... ..decremented by the number of copies involved in the transaction step 1817. Next, if the **right** had a metered **usage** fee specification, the server subtracts the elapsed time from the Remaining-Use-Time associated with... ..adds a level of encryption for no real gain in accountability.

The transaction for specific **usage rights** are now discussed.

The Copy Transaction

A Copy transaction is a request to make one or more independent copies of the work with the same or lesser **usage rights**. Copy differs from the extraction right discussed later in that it refers to entire digital... ..original are transmitted In any event, the Copy-Count field for the copy of the **digital** work being sent **right** is set to the number-of-copies requested.

- * The requester records the work contents, data, and **usage rights** and stores the work. It records the date and time that the copy was made... ..transaction is a request to move copies of the work with the same or lesser **usage rights** to another repository. In contrast with a copy transaction, this results in removing the work... ..set to the number-of-copies requested
- * The requester records the work contents, data, and **usage rights** and stores the work.
- * The server decrements its copy count by the number of copies... ..as modified to reflect the loan period.
- * The requester records the digital work contents, data, **usage rights**, and loan period and stores the work.
- * The server updates the **usage rights** information in the **digital** work to reflect the number of copies loaned out.
- * The repositories perform the common closing transaction steps.
- * The server updates the **usage rights** data for the **digital** work. This may preclude use of the work until it is returned from the loan... ..makes a copy of the digital work in a place outside of the protection of **usage rights**. As with all rights, this may require particular authorization certificates.

Once a digital work is printed, the publisher and user are bound by whatever **copyright** laws are in effect. However, printing moves the contents outside the control of repositories For... ..a digital disk is permitted, then that digital copy is outside of the control of **usage rights**. Both the creator and the user know this, although the creator does not necessarily give tacit consent to such copying, which may violate **copyright** laws.

- * The requester sends the server a message to initiate a Print transaction. This message... ..the original are transmitted by the server.
- * The requester records the work contents, data, and **usage rights**. It then creates a one-time key and encrypts the contents file. It saves the... ..restore operation is intended to be used to compensate for catastrophic media failure. Like all **usage rights**, restoration **rights** can include fees and access tests including authorization checks.
- * The requester sends the server a... ..server retrieves the key from the restoration file. It decrypts the work contents, data, and **usage rights**
- * The server transmits the requested contents and data to the requester according to the transmission... ..except that it is generalized to the full power of the access specifications of the **usage rights** language.

The Directory transaction has the important role of passing along descriptions of the rights... ..is set to the number-of-copies requested.

* The requester records the contents, data, and **usage rights** and stores the work. It records the date and time that new work was made... ..is set to the number-of-copies requested.

* The requester records the contents, data, and **usage rights** and embeds the work in the destination file.

* The repositories perform the common closing transaction...transactions," but they are actually made up of other transactions that repositories already have

A **usage right** can specify an authorization-ID, which identifies an authorization object (a digital work in a... ..in the repository where it is no longer accessible as a work for exercising any **usage rights** other than the execution of the software as part of repository operations in carrying out...

Claims: ...system for secure distribution and control of digital works between repositories comprising:

means for creating **usage rights**, each instance of a **usage right** representing a specific instance of how a digital work may be used or distributed;

means for attaching a created set of **usage rights** to a **digital work**;

a communications medium for coupling repositories to enable exchange of repository transaction messages;

a plurality of general repositories for storing and securely exchanging digital works with attached **usage rights**, each of said general repositories comprising:

a storage means for storing digital works and their attached **usage rights**;

an identification certificate for indicating that the associated general repository is secure;

an external interface... ..to digital works stored in another general repository, said usage repository transaction message specifying a **usage right**, said **usage** transaction processing means further having a server mode of operation for determining if a request... ..stored in said storage means may be granted, said request being granted only if the **usage right** specified in said request is attached to said digital work; and

an input means coupled... ..repository, said rendering repository comprising;

a storage means for storing digital works and their attached **usage rights**;

an identification certificate, said identification certificate for indicating that the rendering repository is secure;

an... ..to digital works stored in a general repository, said usage repository transaction message specifying a **usage right**;

an input means coupled to said usage transaction processing means for enabling user created signals... ..digital works.

3. The system as recited in Claim 1 wherein said means for creating **usage rights** is further for the specification of different sets of **usage rights** to be attached to digital works when a corresponding **usage right** is exercised.

4. The system as recited in Claim 1 wherein said **usage rights** grammar further defines means for specifying conditions which must be satisfied before a **usage right** may be exercised and said usage transaction processing means in said server mode is further comprised of means for determining if specified conditions for a **usage right** are satisfied before access is granted.

5. The system as recited in Claim 1 wherein a first **usage right** enables copying of a digital work and specification of a revenue owner who is paid... ..distribution and use of digital works comprising the steps of:

- a) attaching a set of **usage rights** to a **digital work**, each of said **usage rights** defining a specific instance of how a digital work may be used or distributed, said **usage right** specifying one or more conditions which must be satisfied in order for said **usage right** to be exercised and a next set of **usage rights** to be attached to a distributed digital work;
- b) storing said digital work and its attached **usage rights** in a first repository;
- c) a second repository initiating a request to access said digital work in said first repository, said request identifying a **usage right** representing how said second repository desires to use said digital work;
- d) said first repository receiving said request from said second repository;
- e) said first repository determining if the identified **usage right** is attached to said digital work;
- f) said first repository denying access to said digital work if said identified **usage right** is not attached to said digital work;
- g) if said identified **usage right** is attached to said digital work, said first repository determining if conditions specified by said **usage right** are satisfied;
- h) if said conditions are not satisfied, said first repository denying access to... ..work;
- i) if said conditions are satisfied, said first repository attaching a next set of **usage rights** to said **digital work**, said next set of **usage rights** specifying how said second repository may use and distribute said digital work; and
- j) said first repository transmitting said digital work and said attached next set of **usage rights** to said second repository.

7. The method as recited in Claim 6 wherein said step... ..8. A system for controlling distribution and use of digital works comprising:

means for attaching **usage rights** to said **digital work**, said **usage rights** indicating how a recipient may use and and subsequently distribute said digital work;

a communications... ..of digital works;

a plurality of repositories for managing exchange of digital works based on **usage rights** attached to said **digital works**, each of said plurality of repositories comprising:

a storage means for storing digital works and their attached **usage rights**;

a processor operating responsive to coded instructions;

a memory means coupled to said processor for... ..in a first server mode for processing access requests to digital works and for attaching **usage rights** to **digital works** when transmitted to another of said plurality of repositories, a second requester mode for... ..works stored on a server repository, said digital works having associated therewith one or more **usage rights** for specifying how said digital work may be used or distributed, said method comprising the... ..said usage transaction indicating a request to access a digital work and specifying a particular **usage right**;

e) determining if said usage transaction may be completed by comparing said particular **usage right** specified in said **usage transaction** and **usage rights** associated with said **digital work**;

f) if said particular **usage right** is not one of said **usage rights** associated with said **digital work**, denying access to said digital work; and

g) if said particular **usage right** is one of said **usage rights** associated with said **digital work**, granting access to said digital work and performing usage transaction steps associated with said particular **usage right**.

Claims: ...an external interface for removably coupling to said medium;

said system comprising means for providing **usage rights** associated with **digital** works, each of said **usage rights** specifying how a **digital** work may be used or distributed, said **usage rights** being stored together with the corresponding digital works in repositories;

each of said repositories further... ..another general repository, said usage repository transaction message specifying a purpose corresponding to a specific **usage right** representing how the requesting repository desires to use said digital work, said usage transaction processing... ..stored in said storage means may be granted, said request being granted only if the **usage right** specified in said request is associated with said digital work.

2. A system as claimed... ..in a first server mode for processing access requests to

digital works and for associating **usage rights** to **digital** works when transmitted to another of said plurality of repositories, a second requester mode for... ..as claimed in any one of claims 1 to 2, wherein said means for providing **usage rights** associated with **digital** works comprise first means for creating **usage rights** and second means for associating a created set of **usage rights** to a **digital** work.

4. The system according to claim 3 wherein said means for creating **usage rights** is further for the specification of different sets of **usage rights** to be associated to digital works when a corresponding **usage right** is exercised.

5. A system as claimed in any one of claims 1 to 4... ..repository, said rendering repository comprising;

a storage means for storing digital works and their associated **usage rights**;

an identification certificate, said identification certificate for indicating that the rendering repository is secure;

an... ..a general repository, said usage repository transaction message specifying a purpose corresponding to a requested **usage right**;

an input means coupled to said usage transaction processing means for enabling user created signals... ..works.

9. The system according to any one of claims 1 to 8 wherein said **usage rights** further define means for specifying conditions which must be satisfied before a **usage right** may be exercised and said usage transaction processing means in said server mode is further comprised of means for determining if specified conditions for a **usage right** are satisfied before access is granted.

10. The system according to any one of claims 1 to 9 wherein a first **usage right** enables copying of a digital work and specification of a revenue owner who is paid... ..use of digital works, said method comprising the steps of:

a) providing a set of **usage rights** associated with a **digital** work, each of said **usage rights** specifying how a **digital** work may be distributed or used;

b) storing said digital work and its associated **usage rights** in a first repository;

c) a second repository initiating a request to access said digital work in said first repository, said request specifying a purpose corresponding to a specific **usage right** representing how said second repository desires to use said digital work;

d) said first repository receiving said request from said second repository;

e) said first repository determining if the specific **usage right** is associated to said digital work;

f) said first repository denying access to said digital work if said specific **usage right** is not associated with said digital work;

- g) if said specific **usage right** is associated with said digital work, said first repository determining if conditions specified by said **usage right** are satisfied;
- h) if said conditions are not satisfied, said first repository denying access to... ..conditions are satisfied, said first repository transmitting said digital work and said associated set of **usage rights** to said second repository.
12. A method as claimed in claim 11, wherein if said conditions specified by said **usage right** are satisfied, a next set of **usage rights** is associated with said digital work, said next set of **usage rights** specifying how said second repository may use and distribute said digital work.
13. The method... ..said usage transaction indicating a request to access a digital work and specifying a particular **usage right**;
- e) determining if said usage transaction may be completed by comparing said particular **usage right** specified in said **usage** transaction and **usage rights** associated with said **digital** work;
- f) if said particular **usage right** is not one of said **usage rights** associated with said **digital** work, denying access to said digital work; and
- g) if said particular **usage right** is one of said **usage rights** associated with said **digital** work, granting access to said digital work and performing usage transaction steps associated with said particular **usage right**.

8/K/5 (Item 5 from file: 348)

EUROPEAN PATENTS

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Specification: ...A1

The present invention relates to the field of distribution and **usage rights** enforcement for digitally encoded works.

A fundamental issue facing the publishing and information industries as... ..as software programs. The present invention allows the owner of a digital work to attach **usage rights** to their work. The **usage rights** define how the **digital** work may be used and distributed. These **usage rights** become part of the digital work and are always honored.

Instances of **usage rights** are defined using a flexible and extensible **usage rights** grammar. Conceptually, a **right** in the **usage rights** grammar is a label associated with a predetermined behavior and conditions to exercising the right... ..limit the duration of which a work may be LOANed.

In the present invention a **usage right** is comprised of a right code along with the various conditions for exercising the right... ..a right and a fee specification for indicating usage fees for the exercise of a **right**. A **digital** work may

have different versions of a right attached thereto. A version of a right... ..but the conditions (and typically the fees) would be different.

Digital works and their attached **usage rights** are stored in repositories. Digital works are transmitted between repositories. Repositories interact to exchange digital works according to a predetermined set of usage transactions steps. The behavior of a **usage right** is embodied in a predetermined set of usage transactions steps. The usage transaction steps further...the present invention.

Figure 11 is a description tree wherein certain d-blocks have **PRINT usage rights** and is used to illustrate "strict" and "lenient" rules for resolving **usage rights** conflicts.

Figure 12 is a block diagram of the hardware components of a repository as... ..embodiment of the present invention.

Figure 14 is diagram illustrating the basic components of a **usage right** in the currently preferred embodiment of the present invention.

Figure 15 lists the **usage rights** grammar of the currently preferred embodiment of the present invention.

Figure 16 is a flowchart... ..accompanying interpreter (e.g. software) that may be required for recreating the work. The term **composite work** refers to a **digital work** comprised of a collection of other digital works. The term "**usage rights**" or "**rights**" is a term which refers to rights granted to a recipient of a **digital work**. Generally, these **rights** define how a **digital work** can be used and if it can be further distributed. Each **usage right** may have one or more specified conditions which must be satisfied before the right may... ..1, a creator creates a digital work, step 101. The creator will then determine appropriate **usage rights** and fees, attach them to the digital work, and store them in Repository 1, step 102. The determination of appropriate **usage rights** and fees will depend on various economic factors. The digital work remains securely in Repository... ..to obtain a copy of the digital work. The purpose will correspond to a specific **usage right**. In any event, Repository 1 checks the **usage rights** associated with the **digital work** to determine if the access to the digital work may be granted, step 105. The check of the **usage rights** essentially involves a determination of whether a right associated with the access request has been...itself a digital work that can be moved between repositories and subjected to fees and **usage rights** conditions. An authorization may be required by both repositories involved in an access to a... ..a digital work and a repository 415 for accessing digital works stored therein.

STRUCTURE OF DIGITAL WORKS

Usage rights are attached directly to digital works. Thus, it is important to understand the structure of a digital work. The structure of a **digital work**, in particular **composite digital works**, may be naturally organized into an acyclic structure such as a hierarchy. For example, a... ..articles and photographs may represent a node in a hierarchical structure. Consequently, controls, i.e. **usage rights**, may be placed on each node by the creator. By enabling control and fee billing...giving the number of bytes in the work, a rights portion 704 wherein the granted **usage rights** and their status data are maintained, a parent pointer 705 for pointing to a parent... ..the various information associated with a right is maintained. The information required by the respective **usage rights** is described in more detail below. D-blocks form a strict hierarchy. The top d... ..a work has no parent; all other d-blocks have one parent. The relationship of **usage rights** between parent and child d-blocks and how conflicts are resolved is described below.

A... ..right. The status information field 1052 will contain information relating to the state of a **right** and the **digital work**. Such information is indicated below in Table 1. The rights as stored in the... ..in alphabetical order. The digital works are typed to reflect how the files are used. **Usage rights** can be attached to folders so that the folder itself is treated as a digital...may be attached to the folder which define how folder contents can be managed.

ATTACHING USAGE RIGHTS TO A DIGITAL WORK

It is fundamental to the present invention that the **usage rights** are treated as part of the digital work. As the digital work is distributed, the scope of the granted **usage rights** will remain the same or may be narrowed. For example, when a digital work is transferred from a document server to a repository, the **usage rights** may include the right to loan a copy for a predetermined period of time (called the original rights). When the repository loans out a copy of the **digital** work, the **usage rights** in the loaner copy (called the next set of rights) could be set to prohibit... ..basic idea is that one cannot grant more rights than they have.

The attachment of **usage rights** into a **digital** work may occur in a variety of ways. If the **usage rights** will be the same for an entire digital work, they could be attached when the... ..deposit in the digital work server. In the case of a digital work having different **usage rights** for the various components, this can be done as the digital work is being created... ..work assembling tool could be utilized which provides for an automated process of attaching the **usage rights**.

As will be described below, when a digital work is copied, transferred or loaned, a... ..transported.

Resolving Conflicting Rights

Because each part of a digital work may have its own **usage rights**, there will be instances where the rights of a "contained part" are different from its... ..supports various combinations of allowing and disallowing access. Moreover, as will be described below, the **usage rights** grammar permits the owner of a digital work to specify if constraints may be imposed... ..by a container part. The manner in which digital works may be sanctioned because of **usage rights** conflicts would be implementation specific and would depend on the nature of the digital works...element 1201 and processor memory 1202. The processing means 1201 provides controller, repository transaction and **usage rights** transaction functions for the repository. Various functions in the operation of the repository such as... ..optical disk.

The clock 1205 is used to time-stamp various time based conditions for **usage rights** or for metering **usage** fees which may be associated with the digital works. The clock 1205 will have an...repository in order to invoke transactions to gain access to a digital work, or exercise **usage rights**. As described above, a repository may be embodied in various forms. The user interface for... ..a right. The requirement for payment of fees is described with each version of a **usage right** in the **usage rights** language. The recording and reporting of such fees is performed by the credit server. One... ..is a single fee at the time of purchase, after which the purchaser obtains unlimited **rights** to **use** the work as often and for as long as he or she wants. Alternative models... ..server reporting the transaction to minimize transaction processing at the risk of losing some transactions.

USAGE RIGHTS LANGUAGE

The present invention uses statements in a high level "**usage rights** language" to define **rights** associated with **digital** works and their parts. **Usage rights** statements are interpreted by repositories and are used to determine what transactions can be successfully... ..it can be used, and what fees (if any) are to be charged for that **use**. Once the **usage rights** statements are generated, they are encoded in a suitable form for accessing during the processing of transactions.

Defining **usage rights** in terms of a language in combination with the hierarchical representation of a digital work...will be described in greater detail below with respect to the language grammar elements.

The **usage rights** language is based on the grammar described below. A grammar is a convenient means for... ..optional items. Note that brackets, bars and braces are used to describe the language of **usage rights** sentences but do not appear in actual sentences in the language.

In contrast, parentheses are part of the **usage rights** language. Parentheses are used to group items together in lists. The notation (x(sup(*)) is... ..as its value. In some cases, the keyword takes a list of identifiers.

In the **usage rights** language, time is specified in an hours:minutes:seconds (or hh:mm:ss) representation. Time...
...or units of time Money units are specified in terms of dollars.

Finally, in the **usage rights** language, various "things" will need to interact with each other. For example, an instance of a **usage right** may specify a bank account, a digital ticket etc.. Such things need to be identified and are specified herein using the suffix "-ID."

The **Usage Rights Grammar** is listed in its entirety in Figure 15 and is described below.

Grammar element 1501 "**Digital Work Rights:= (Rights*)**" define the **digital work rights** as a set of rights. The set of **rights** attached to a **digital work** define how that digital work may be transferred, used, performed or played. A set... ..the case of compound digital works, each of the components of the digital work. The **usage rights** of components of a digital may be different.

Grammar element 1502 "**Right: = (Right-Code (Copy-Count) (Control-Spec) (Time-Spec) (Access-Spec) (Fee-Spec))**" enumerates the content of a **right**. Each **usage right** must specify a right code. Each right may also optionally specify conditions which must be... ..optional elements, the following defaults apply: copy count equals 1, no time limit on the **use** of the **right**, no access tests or a security level required to **use** the **right** and no fee is required. These conditions will each be described in greater detail below... ..display.

* **Print** To render the work in a medium that is not further protected by **usage rights**, such as printing on paper.

Grammar element 1505 "**Transport-Code : = (Copy (vertical bar) Transfer (vertical...making of backup copies to protect the copy owner against catastrophic equipment failure.**

Many software **licenses** and also **copyright** law give a copy owner the right to make backup copies to protect against catastrophic... ..management rights enable the making and restoring of backup copies in a way that respects **usage rights**, honoring the requirements of both the copy owner and the rights grantor and revenue owner. Backup copies of work descriptions (including **usage rights** and fee data) can be sent under appropriate protocol and **usage rights** control to other document repositories of sufficiently high security. Further **rights** permit organization of **digital works** into folders which themselves are treated as digital works and whose contents may be... ..Edit (Process: Process-ID)) (Next-Copy-Rights : Next-Set-of Rights)" lists a category of **rights** involving the **use** of a digital work to create new works.

* **Extract** To remove a portion of a... ..vertical bar) Unrestrictable) (Unchargeable (vertical bar) Chargeable))" provides a condition to specify the effect of **usage rights** and fees of parents on the exercise of the **right**. A **digital work** is restrictable if higher level d-blocks can impose further restrictions (time specifications and on the **use** of the **right**. It is chargeable if more fees can be imposed. The default is chargeable.

Time Specification... ..kinds of time specifications. Each specification represents some limitation on the times over which the **usage right** applies. The **Expiration-Date** specifies the moment at which the **usage right** ends. For example, if the **Expiration-Date** is "Jan 1, 1995," then the right ends... ..in greater detail below.

In a transaction involving a repository and a document server, some **usage rights** may require that the repository have a particular authorization, that the server have some authorization... ..to be established and authorization obtained before the right could be exercised.

For one-time **usage rights**, a variant on this scheme is to have a digital ticket. A ticket is presented... ..Tickets are digital works and can be copied or transferred between repositories according to their **usage rights**.

In the currently preferred embodiment, a "punched" ticket becomes "unpunched" or "refreshed" when it is...that it was punched. Of course, the digital ticket must have the copy or extract **usage rights** attached thereto.

The capability to unpunch a ticket is important in the following cases:

* A... ..a essentially a scheduled modifier of any other fee specification for this version of the **right** of the **digital** work. (It does not refer to children or parent digital works or to other versions...various transactions. The combination of transactions invoked will depend on the specifications assigned for a **usage right**. There are three basic types of transactions, Session Initiation Transactions, Financial Transactions and Usage Transactions... ..establish a valid session. When a valid session is established, transactions corresponding to the various **usage rights** are invoked. Finally, request specific transactions are performed.

Transactions occur between two repositories (one acting...There are some common steps that are part of the semantics of all of the **usage rights** transactions. These steps are referred to as the common transaction steps. There are two sets... ..these are listed here rather than repeating them in the descriptions of all of the **usage rights** transactions.

Transactions can refer to a part of a digital work, a complete digital work... ..Many of the steps here involve determining if certain conditions are satisfied. Recall that each **usage right** may have one or more conditions which must be satisfied before the **right** can be exercised. **Digital** works have parts and parts have parts. Different parts can have different rights and fees... ..has occurred and that a "trusted" session is in place. General tests are tests on **usage rights** associated with the folder containing the work or some containing folder higher in the file...that the copy count does not equal zero, the server checks if the copies in **use** for the requested **right** is greater than or equal to any copy count for the requested right (or relevant... ..copies in use is greater than or equal to the copy count, this indicates that **usage rights** for the version of the transaction have been exhausted. Accordingly, the server terminates the transaction... ..is the sum of the Copy-Counts for all of the versions of the loan **right** of the **digital work**. For a **composite** work, the relevant figure is the minimal such sum of each of the components of... ..of remaining rights, the server terminates the transaction, step 1805.

If Loan is not a **usage right** for the **digital** work or if all copies have not been loaned out or the requested right is... ..decremented by the number of copies involved in the transaction, step 1817. Next, if the **right** had a metered **usage** fee specification, the server subtracts the elapsed time from the Remaining-Use-Time associated with...adds a level of encryption for no real gain in accountability.

The transaction for specific **usage rights** are now discussed.

The Copy Transaction

A Copy transaction is a request to make one or more independent copies of the work with the same or lesser **usage rights**. Copy differs from the extraction right discussed later in that it refers to entire digital... ..original are transmitted. In any event, the Copy-Count field for the copy of the **digital** work being sent **right** is set to the number-of-copies requested.

* The requester records the work contents, data, and **usage rights** and stores the work. It records the date and time that the copy was made... ..transaction is a request to move copies of the work with the same or lesser **usage rights** to another repository. In contrast with a copy transaction, this results in removing the work... ..set to the number-of-copies requested.

* The requester records the work contents, data, and **usage rights** and stores the work.

* The server decrements its copy count by the number of copies... ..as modified to reflect the loan period.

* The requester records the digital work contents, data, **usage rights**, and loan period and stores the work.

* The server updates the **usage rights** information in the **digital** work to reflect the number of copies loaned out.

* The repositories perform the common closing transaction steps.

* The server updates the **usage rights** data for the **digital** work. This may preclude use of the work until it is returned from the loan...makes a copy of the digital work in a place outside of the protection of **usage rights**. As with all rights, this may require particular authorization certificates.

Once a digital work is printed, the publisher and user are bound by whatever **copyright** laws are in effect. However, printing moves the contents outside the control of repositories. For... ...a digital disk is permitted, then that digital copy is outside of the control of **usage rights**. Both the creator and the user know this, although the creator does not necessarily give tacit consent to such copying, which may violate **copyright** laws.

* The requester sends the server a message to initiate a Print transaction. This message... ...the original are transmitted by the server.

* The requester records the work contents, data, and **usage rights**. It then creates a one-time key and encrypts the contents file. It saves the...restore operation is intended to be used to compensate for catastrophic media failure. Like all **usage rights**, restoration **rights** can include fees and access tests including authorization checks.

* The requester sends the server a... ...server retrieves the key from the restoration file. It decrypts the work contents, data, and **usage rights**.

* The server transmits the requested contents and data to the requester according to the transmission... ...except that it is generalized to the full power of the access specifications of the **usage rights** language.

The Directory transaction has the important role of passing along descriptions of the rights records the contents, data, and **usage rights** and stores the work. It records the date and time that new work was made... ...is set to the number-of-copies requested.

* The requester records the contents, data, and **usage rights** and embeds the work in the destination file.

* The repositories perform the common closing transaction... ...transactions," but they are actually made up of other transactions that repositories already have.

A **usage right** can specify an authorization-ID, which identifies an authorization object (a digital work in a...in the repository where it is no longer accessible as a work for exercising any **usage rights** other than the execution of the software as part of repository operations in carrying out...

Claims: ...digital work;

g) said first repository denying access to said digital work if said identified

usage right is not attached to said digital work;

h) if said identified **usage right** is attached to said digital work, said first repository determining if conditions specified by said **usage right** are satisfied;

i) if said conditions are not satisfied, said first repository denying access to...

8/K/6 (Item 6 from file: 348)

EUROPEAN PATENTS

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Country	Number	Kind	Date		
Type		Pub. Date		Kind	Text
Available Text		Language		Update	Word Count
Total Word Count (Document A)					
Total Word Count (Document B)					
Total Word Count (All Documents)					

? d s

Set Items Description

S1 70643070 S PD<19991217

S2 1786 S (COMBINE OR COMBINING OR COMBINED OR COMBINES) (5N) ((DIGITAL OR ELECTRONIC OR DERIVATIVE OR COMPOSITE) (2W) (CONTENT OR WORK? ?))

S3 86 S (COMPOSITE OR COMPOSITES) (5N) ((DIGITAL OR ELECTRONIC OR DERIVATIVE) (2W) (CONTENT OR WORK? ?))

S4 15 S S1 AND S3

S5 14 RD (unique items)

S6 18512683 S (RIGHTS(W)MANAGEMENT) OR ((DIGITAL OR USE OR USAGE) (3N) (PERMISSION OR PERMISSIONS OR RIGHT OR RIGHTS)) OR DRM OR LICENSE OR LICENSED OR LICENSES OR LICENSING OR (INTELLECTUAL(W) (PROPERTY OR PROPERTIES)) OR COPYRIGHT OR COPYRIGHTS

S7 6 S S1 AND S3 AND S6

S8 6 RD S7 (unique items)

? s s1 and s2 and s6

Processing

70643070 S1

1786 S2

18512683 S6

S9 79 S S1 AND S2 AND S6

? rd

>>>W: Duplicate detection is not supported for File 348.

Duplicate detection is not supported for File 349.

Duplicate detection is not supported for File 347.

Records from unsupported files will be retained in the RD set.

S10 40 RD (UNIQUE ITEMS)

? t s40/free/all

>>>E: Set 40 does not exist

? t s10/free/all

>>>W: "FREE" is not a valid format name in file(s): 347-349

10/8/1 (Item 1 from file: 15)

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02566564 232545561

****USE FORMAT 7 OR 9 FOR FULL TEXT****

Section 3: The public electronic library: Learn as you go-creating an electronic publishing capability

Word Count: 2947 Length: 8 Pages

1998

Company Names:

University of Wisconsin-Madison (Duns: 78-243-1886 NAICS:611310)

Geographic Names: United States; US

Descriptors: Case studies; Electronic publishing; Internet; Document management; Hypertext; Libraries; Colleges & universities

Classification Codes: 9190 (CN=United States); 9110 (CN=Company specific); 5250 (CN=Telecommunications systems & Internet communications); 8306 (CN=Schools & educational services)

Print Media ID: 45886

10/8/2 (Item 2 from file: 15)

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01588724 02-39713

****USE FORMAT 7 OR 9 FOR FULL TEXT****

Dawson Information Quest expands services

Word Count: 650 Length: 2 Pages

Feb 1998

Geographic Names: US

Descriptors: Electronic publishing; Service introduction; Online information services; Alliances

Classification Codes: 5250 (CN=Telecommunications systems); 2310 (CN=Planning); 8690 (CN=Publishing industry); 9190 (CN=United States); 9000 (CN=Short Article); 7500 (CN=Product planning & development)

10/8/3 (Item 3 from file: 15)

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00934769 95-84161

****USE FORMAT 7 OR 9 FOR FULL TEXT****

Multimedia big deal

Word Count: 3755 **Length:** 5 Pages

Oct 1994

Geographic Names: Canada

Descriptors: Multimedia computer applications; International law; **Copyright;** Effects

Classification Codes: 9172 (CN=Canada); 5240 (CN=Software & systems); 4300 (CN=Law)

10/8/4 (Item 1 from file: 9)

Business & Industry(R)

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01517663 Supplier Number: 24222652 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Anti-Piracy Image Software Plus Insurance

April 06, 1998

Word Count: 439

Company Names: HEATH (CE) PLC; NEW MEXICO SOFTWARE; SIGNUM TECHNOLOGIES LTD

Industry Names: Applications software; Software

Product Names: Applications software packages NEC (737279)

Concept Terms: All company; All product and service information; Joint venture; Product introduction

Geographic Names: European Union (EUCX); United Kingdom (UNK); Western Europe (WEEX)

10/8/5 (Item 1 from file: 610)

Business Wire

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00152040 19991207341B1157 (USE FORMAT 7 FOR FULLTEXT)

SkyStream and Lucent Technologies to Work Together to Target International Cable and Satellite Markets

Tuesday , December 7, 1999 08:41 EDT

Word Count: 970

Company Names: lucent; lucent technologies; HARRIS CORP; SKYSTREAM LTD; VIDEO SYSTEM; DIGITAL VIDEO; ECHOSTAR COMMUNICATIONS CORP; INTERNATIONAL DATACASTING CORP ; IRDETO BV; TEKTRONIX INC; BELL LABORATORIES

Geographic Names: CALIFORNIA; GEORGIA US; AMERICAS; NORTH AMERICA; USA

Product Names: BROADCASTING; CABLE TV; COMPUTER SOFTWARE; CORPORATE NETWORKS; DATA COMMUNICATIONS; INTERNET; MEDIA INDUSTRIES; NETWORKS; SATELLITE COMMUNICATIONS; SATELLITE TV; SPACECRAFT AND SATELLITES; TECHNOLOGY DEVELOPMENT; TELECOMMUNICATIONS; COMMUNICATIONS TECHNOLOGIES; CABLE SERVICE

PROVIDERS; COMPUTERS; CORPORATE; AEROSPACE

Event Names: RESEARCH AND DEVELOPMENT; SERVICES; TECHNOLOGY DEVELOPMENT

10/8/6 (Item 2 from file: 610)

Business Wire

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00140550 19991116320B1309 (USE FORMAT 7 FOR FULLTEXT)

New Digital Wireless Network Access Point Includes 10BaseT Four-Port Hub

Tuesday , November 16, 1999 00:00 EST

Word Count: 540

Company Names: DIGITAL WIRELESS CORP

Product Names: CORPORATE NETWORKS; DATA COMMUNICATIONS; MOBILE COMMUNICATIONS; MODEMS; NETWORKS; RADIO COMMUNICATION; COMMUNICATIONS TECHNOLOGIES; COMPUTERS; CORPORATE; TELECOMMUNICATIONS; COMPUTER HARDWARE; COMPUTER PERIPHERALS

10/8/7 (Item 3 from file: 610)

Business Wire

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00102237 19990913256B0206 (USE FORMAT 7 FOR FULLTEXT)

Viewpoint Digital Appoints New President

Monday , September 13, 1999 09:16 EDT

Word Count: 901

Company Names: gte; computer associates intl inc; COMPUTER ASSOCIATES INTERNATIONAL INC; CALLWARE TECHNOLOGIES INC; CAMBRIC GRAPHICS INC; BRIGHAM YOUNG UNIVERSITY; DIRECTV INC; DIREC TV; NOVELL INC; WORDPERFECT INTERNATIONAL; WORD PERFECT LTD; ASSOCIATES INTERNATIONAL INC

Geographic Names: TEXAS; USA; UTAH; AMERICAS; NORTH AMERICA

Product Names: ADVERTISING AND PROMOTION; COMPUTER SOFTWARE; INTERNET; MANAGEMENT CHANGES; MARKETING; COMPUTERS; COMMUNICATIONS TECHNOLOGIES; COMPANY PROFILES; CORPORATE

Event Names: ADVERTISING AND PROMOTION; COMPANY PROFILES; CORPORATE GROUPS AND OWNERSHIP ; MANAGEMENT PROCEDURES; TECHNOLOGY DEVELOPMENT

10/8/8 (Item 4 from file: 610)

Business Wire

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00062959 19990621172B0312 (USE FORMAT 7 FOR FULLTEXT)

SkyStream Corporation Receives Intel Investment

Monday , June 21, 1999 08:32 EDT

Word Count: 594

Company Names: intel; intel corp; HARRIS CORP; HOME PRODUCTS INTERNATIONAL INC; HOME PRODUCTS INC; SKYSTREAM LTD; SCIENTIFIC ATLANTA INC; TEKTRONIX INC; WILSON MC HENRY CO INC

Geographic Names: CALIFORNIA; GEORGIA US; USA; AMERICAS; NORTH AMERICA

Product Names: BROADCASTING; CORPORATE NETWORKS; DATA COMMUNICATIONS; INTERNET; NETWORKS; SATELLITE TV; SPACECRAFT AND SATELLITES; TV STATIONS; COMMUNICATIONS TECHNOLOGIES; MEDIA INDUSTRIES; COMPUTERS; CORPORATE; AEROSPACE

Event Names: MANUFACTURING AND PRODUCTION

10/8/9 (Item 5 from file: 610)

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00056882 19990608159B1003 (USE FORMAT 7 FOR FULLTEXT)

Transcontinental: Strong Growth Continues

Tuesday , June 8, 1999 16:49 EDT

Word Count: 1,759

Company Names: TRANS CONTINENTAL GROUP LTD INC; BOOK CO INTERNATIONAL PTY LTD; GTC TRANSCONTINENTAL GROUP LTD

Geographic Names: CANADA; USA; AMERICAS; NORTH AMERICA

Product Names: CORPORATE FINANCIAL DATA; CORPORATE FUNDING; DIRECT MARKETING; MERGERS AND ACQUISITIONS; PRINTING; RETAILING AND DISTRIBUTION; COMPANY PROFILES; CORPORATE; FINANCIAL SERVICES; MARKETING

Event Names: COMPANY PROFILES; CONTRACTS AND ORDERS; CORPORATE FINANCIAL DATA; CORPORATE FUNDING; CORPORATE PERFORMANCE; DISTRIBUTION CHANNELS; MANUFACTURING AND PRODUCTION; MARKET DATA; MERGERS AND ACQUISITIONS; PLANT AND EQUIPMENT; STOCKS AND SHARES; TECHNOLOGY DEVELOPMENT

10/8/10 (Item 1 from file: 810)

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0946514 BW1131

HARMONIC LIGHTWAVES 3 : Harmonic Lightwaves Achieves First U.S. Cable TV Headend Interoperability With Multiple Vendors Set-Top Boxes

December 02, 1998

Byline: Business Editors/Technology Writers

Word Count: 1240

10/8/11 (Item 2 from file: 810)

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0888617 BW1233

ALADDIN KNOWLEDGE : Aladdin Knowledge Systems Partners with Rights Exchange, Inc. to Develop a Comprehensive Solution for Electronic Software Distribution

August 03, 1998

Byline: Business Editors and Computer Writers

Word Count: 1454

10/8/12 (Item 3 from file: 810)

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0766676 BW0105

MODACAD INC : ModaCAD Unveils New E-Commerce Technology and Business Strategy

October 31, 1997

Byline: Business Editors and High-Tech Writers

Word Count: 1019

10/8/13 (Item 4 from file: 810)

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0756724 BW0009

MODACAD INC : Highland House Licenses MocaCAD Software

October 10, 1997

Byline: Business Editors & Computer Writers

Word Count: 333

10/8/14 (Item 5 from file: 810)

Business Wire

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0738050 BW0016

MODACAD : Duck Head Licenses ModaCAD's 3-D Retail Space Management Virtual Reality System; ModaPLAN -- Revolutionary New Concept Virtual Retailing Integrating CAD and Interactive 3-D Store Planning

August 22, 1997

Byline: Business Editors & Computer Writers
Word Count: 751

10/8/15 (Item 6 from file: 810)
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0666754 BW1151

VIEWPOINT DATALABS : Viewpoint and Seybold Seminars Announce "The Official World Movers '97 CD ROM"

January 29, 1997

Byline: Business Editors
Word Count: 867

10/8/16 (Item 7 from file: 810)
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0641377 BW0170

NETPOWER : NeTpower Announces Rackmountable Digital Media NT Workstation Solution; Symetra RAQ is the Only Dual Processor Workstation, with a Starting Price under \$10,000, on the Market Today

November 05, 1996

Byline: Business Editors & Computer Writers
Word Count: 1145

10/8/17 (Item 8 from file: 810)
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0555857 BW1214

MILTON BRADLEY : Another strong year for games and puzzles from Milton Bradley

February 08, 1996

Byline: Feature & Lifestyle Editors

Word Count: 437

10/8/18 (Item 1 from file: 621)

Gale Group New Prod. Annou.(R)

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01860376 **Supplier Number: 54502495 (USE FORMAT 7 FOR FULLTEXT)**

Worldtalk Chooses Network Associates to Deliver Best-of-Breed Internet Security Solutions.

April 29 , 1999

Word Count: 975

Publisher Name: PR Newswire Association, Inc.

Company Names: *Network Associates Inc.; Worldtalk Corp.

Event Names: *380 (Strategic alliances)

Geographic Names: *1USA (United States)

Product Names: *7372000 (Computer Software)

Industry Names: BUS (Business, General); BUSN (Any type of business)

SIC Codes: 7372 (Prepackaged software)

NAICS Codes: 51121 (Software Publishers)

Ticker Symbols: NETA; WTLK

10/8/19 (Item 1 from file: 636)

Gale Group Newsletter DB(TM)

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04411856 **Supplier Number: 55520743 (USE FORMAT 7 FOR FULLTEXT)**

Japanese Companies in the United States: SOFTWARE AND INFORMATION SYSTEMS.

May 31 , 1999

Word Count: 709

Publisher Name: Japan Economic Institute of America

Event Names: *220 (Strategy & planning); 010 (Forecasts, trends, outlooks); 146 (Foreign operations)

Geographic Names: *9JAPA (Japan); 1USA (United States)

Product Names: *7372000 (Computer Software)

Industry Names: BUS (Business, General); BUSN (Any type of business); INTL (Business, International)

NAICS Codes: 51121 (Software Publishers)

10/8/20 (Item 2 from file: 636)

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04384933 **Supplier Number: 55219018 (USE FORMAT 7 FOR FULLTEXT)**

INTERTRUST: MetaTrust Partners to use InterTrust Di Digital Rights Management.

July 21 , 1999

Word Count: 1315

Publisher Name: M2 Communications

Company Names: *National Westminster Bank PLC
Product Names: *6020000 (Commercial Banks)
Industry Names: BUSN (Any type of business); INTL (Business, International)
SIC Codes: 6020 (Commercial Banks)
NAICS Codes: 52211 (Commercial Banking)

10/8/21 (Item 3 from file: 636)
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04157920 **Supplier Number:** 54497828 (USE FORMAT 7 FOR FULLTEXT)

ECHOSTAR-WEBTV RECEIVER INTRODUCED AT NAB.

April 26 , 1999
Word Count: 408
Publisher Name: Warren Publishing, Inc.
Company Names: *EchoStar Communications Corp.; WebTV
Event Names: *389 (Alliances, partnerships); 336 (Product introduction)
Geographic Names: *1USA (United States)
Product Names: *4834250 (Interactive Television Services); 3662133 (Receive Only Earth Stations); 3662256 (Cable Television Addressable Converters)
Industry Names: BUSN (Any type of business); TELC (Telecommunications)
NAICS Codes: 51321 (Cable Networks); 33422 (Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing)

10/8/22 (Item 4 from file: 636)
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04156670 **Supplier Number:** 54486400 (USE FORMAT 7 FOR FULLTEXT)

NOTEBOOKS.

April 26 , 1999
Word Count: 2051
Publisher Name: Warren Publishing, Inc.
Industry Names: BUSN (Any type of business); ELEC (Electronics)

10/8/23 (Item 5 from file: 636)
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03926673 **Supplier Number:** 50173995 (USE FORMAT 7 FOR FULLTEXT)

Briefs

July 20 , 1998
Word Count: 376
Publisher Name: Phillips Business Information, Inc.

Industry Names: BUSN (Any type of business); CMPT (Computers and Office Automation)

10/8/24 (Item 6 from file: 636)

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03862210 **Supplier Number:** 48408790 (USE FORMAT 7 FOR FULLTEXT)

Anti-Piracy Image Software Plus Insurance 04/06/98

April 6 , 1998

Word Count: 455

Publisher Name: Newsbytes News Network

Company Names: *New Mexico Software

Event Names: *336 (Product introduction)

Geographic Names: *1USA (United States)

Product Names: *7372613 (Network Security Software)

Industry Names: BUSN (Any type of business); CMPT (Computers and Office Automation); TELC (Telecommunications)

NAICS Codes: 51121 (Software Publishers)

10/8/25 (Item 7 from file: 636)

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03657213 **Supplier Number:** 47878887 (USE FORMAT 7 FOR FULLTEXT)

Intergraph to Merge 3Dfx, EA Technology in Next Add-in Card

August 1 , 1997

Word Count: 133

Publisher Name: Phillips Business Information, Inc.

Industry Names: BUSN (Any type of business); CMPT (Computers and Office Automation)

10/8/26 (Item 8 from file: 636)

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03634697 **Supplier Number:** 47827657 (USE FORMAT 7 FOR FULLTEXT)

SILICON GRAPHICS: The World Wide Web brings environmental decision making into the public domain

July 11 , 1997

Word Count: 968

Publisher Name: M2 Communications

Industry Names: BUSN (Any type of business); INTL (Business, International)

10/8/27 (Item 9 from file: 636)

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03616620 **Supplier Number: 47487421 (USE FORMAT 7 FOR FULLTEXT)**

SILICON GRAPHICS: Silicon Graphics delivers 120 Indy web servers to Planet Online

June 25 , 1997

Word Count: 799

Publisher Name: M2 Communications

Industry Names: BUSN (Any type of business); INTL (Business, International)

10/8/28 (Item 10 from file: 636)

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03564376 **Supplier Number: 47374708 (USE FORMAT 7 FOR FULLTEXT)**

SILICON GRAPHICS: The Silicon Network is launched to plug UK Internet skills gap

May 12 , 1997

Word Count: 1150

Publisher Name: M2 Communications

Industry Names: BUSN (Any type of business); INTL (Business, International)

10/8/29 (Item 11 from file: 636)

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03341788 **Supplier Number: 46869358 (USE FORMAT 7 FOR FULLTEXT)**

NETPOWER: NeTpower announces rackmountable digital media NT Workstation solution

Nov 6 , 1996

Word Count: 1119

Publisher Name: M2 Communications

Industry Names: BUSN (Any type of business); INTL (Business, International)

10/8/30 (Item 1 from file: 16)

Gale Group PROMT(R)

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06812693 **Supplier Number: 56973905 (USE FORMAT 7 FOR FULLTEXT)**

Mastering the digital marketplace.(includes related articles on digital value chains)

Sept , 1999

Word Count: 3397

Publisher Name: Trend Publishing, Inc.

Event Names: *010 (Forecasts, trends, outlooks); 220 (Strategy & planning)

Geographic Names: *1USA (United States)

Product Names: *2000000 (Food & Kindred Products); 9911000 (Management Theory & Techniques); 9914100

(Marketing Management); 5411100 (Supermarkets)

Industry Names: BUSN (Any type of business); FOOD (Food, Beverages and Nutrition)

NAICS Codes: 311 (Food Manufacturing); 44511 (Supermarkets and Other Grocery (except Convenience) Stores)

Special Features: LOB; INDUSTRY

Advertising Codes: 31 Marketing/Advertising Theory

10/8/31 (Item 1 from file: 148)

Gale Group Trade & Industry DB

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10038595 **Supplier Number:** 20228308 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Dawson Information Quest expands services. (Dawson Information Quest IQ service)

Feb , 1998

Word Count: 703 **Line Count:** 00066

Company Names: Dawson Information Quest--Services

Industry Codes/Names: BUSN Any type of business; LIB Library and Information Science

Descriptors: Data base industry--Services; Electronic publishing--Contracts

Product/Industry Names: 7339040 (Electronic Document Distribution Services); 7375000 (Database Providers)

Product/Industry Names: 4822 Telegraph & other communications; 7375 Information retrieval services

File Segment: T1 File 148

10/8/38 (Item 1 from file: 635)

Business Dateline(R)

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0807034 97-67294

'TOONING IN FOX ANIMATORS, VALLEY HAVE A LOT RIDING ON FILM OF LOST RUSSIAN PRINCESS

Publication Date: 970420

Word Count: 1,758

Dateline: Phoenix, AZ, US, Mountain

Company Names: Fox Animation Studios Inc, Phoenix, AZ, US, SIC:7812,

Classification Codes: 8307 (Entertainment industry); 7000 (Marketing)

Descriptors: Motion picture industry; Motion pictures; Animation; Market strategy

Special Feature: Photo

10/8/39 (Item 1 from file: 492)

Arizona Repub/Phoenix Gaz

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09110120

'TOONING IN FOX ANIMATORS, VALLEY HAVE A LOT RIDING ON FILM OF LOST RUSSIAN PRINCESS

Sunday, April 20, 1997

Word Count: 1,690

10/8/40 (Item 1 from file: 47)

Gale Group Magazine DB(TM)

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0471329.1 **Supplier Number:** 19192262 (USE FORMAT 7 OR 9 FOR FULL TEXT)

The evolution of selection activities for electronic resources.(Resource Sharing in a Changing Environment)

Wntr , 1997

Word Count: 5811 **Line Count:** 00481

Descriptors: Selection of nonbook materials--Analysis; Data base selection--Analysis; Library resources--Planning; Collection development (Libraries)--Planning

File Segment: MI File 47

>>>W: "FREE" is not a valid format name in file(s): 347-349

10/8/38 (Item 1 from file: 635)

Business Dateline(R)

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0807034 97-67294

'TOONING IN FOX ANIMATORS, VALLEY HAVE A LOT RIDING ON FILM OF LOST RUSSIAN PRINCESS

Publication Date: 970420

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Special Feature: Photo

10/8/39 (Item 1 from file: 492)

Arizona Repub/Phoenix Gaz

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09110120

'TOONING IN FOX ANIMATORS, VALLEY HAVE A LOT RIDING ON FILM OF LOST RUSSIAN PRINCESS

Sunday, April 20, 1997

Word Count: 1,690

10/8/40 (Item 1 from file: 47)

Gale Group Magazine DB(TM)

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04713291 **Supplier Number:** 19192262 (USE FORMAT 7 OR 9 FOR FULL TEXT)

The evolution of selection activities for electronic resources.(Resource Sharing in a Changing Environment)

Wntr , 1997

Word Count: 5811 **Line Count:** 00481

Descriptors: Selection of nonbook materials--Analysis; Data base selection--Analysis; Library resources--Planning; Collection development (Libraries)--Planning

File Segment: MI File 47

>>>W: "FREE" is not a valid format name in file(s): 347-349

10/8/38 (Item 1 from file: 635)

Business Dateline(R)

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0807034 97-67294

'TOONING IN FOX ANIMATORS, VALLEY HAVE A LOT RIDING ON FILM OF LOST RUSSIAN PRINCESS

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Arizona Repub/Phoenix Gaz

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'TOONING IN FOX ANIMATORS, VALLEY HAVE A LOT RIDING ON FILM OF LOST RUSSIAN PRINCESS

Sunday, April 20, 1997

Word Count: 1,690

10/8/40 (Item 1 from file: 47)

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04713291 **Supplier Number:** 19192262 (USE FORMAT 7 OR 9 FOR FULL TEXT)

The evolution of selection activities for electronic resources.(Resource Sharing in a Changing Environment)

Wntr , 1997

Word Count: 5811 **Line Count:** 00481

Descriptors: Selection of nonbook materials--Analysis; Data base selection--Analysis; Library resources--Planning; Collection development (Libraries)--Planning

File Segment: MI File 47

? t s10/k/30

10/K/30 (Item 1 from file: 16)

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...supply chain by using information technology doesn't a DVN make. The players in a **digital** value network **work** together to maximize their **combined** value propositions for the benefit of the end consumers.

And - perhaps most importantly - a digital...strategic information technology practice, A.T. Kearney, Dallas, Texas.

Excerpted from "Mastering the Digital Marketplace." **Copyright** (C) 1999 by A.T. Kearney, Inc. Excerpted with permission of the publisher John Wiley...

19990901

? ts10/k/24

10/K/24 (Item 6 from file: 636)

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New Mexico Software (NMS), which claims to be a leading supplier of **digital content** management systems, has **combined** with

CE Heath, the insurance company, and Signum Technologies, another UK company, which has developed...

...are "stolen" every year from picture libraries, newspapers, magazines and photographers -- and, up until now, **copyright** holders have had little or no redress for the problem.

"When combined with the insurance policy, the new protection system will deter pirates who infringe the **copyright** on more than 30 percent of all pictures," explained Norman Milne, NMS' managing director, who...

...that a photographer or a picture library would not be able to afford to pursue **copyright** law infringements due to the high cost of litigation.

Users of NMS COPs, however, will...

19980406

? ts10/k/20

10/K/20 (Item 2 from file: 636)

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(USE FORMAT 7 FOR FULLTEXT)

INTERTRUST: MetaTrust Partners to use InterTrust Di Digital Rights Management.

Text:

M2 PRESSWIRE-21 July 1999-INTERTRUST: MetaTrust Partners to **use** InterTrust Digital **Rights Management** to build SDMI-compliant music systems (C)1994-99 M2 COMMUNICATIONS LTD

...MetaTrust utility, today jointly announced plans to standardise on employing InterTrust's Commerce 1.2 **Digital Rights Management (DRM)** technologies to build Secure Digital Music Initiative (SDMI) compliant music systems.

Pending the completion and...

...host and portable devices. All MetaTrust partners will be able to leverage InterTrust's single **DRM** platform to provide interoperable, trusted and secure products and services.

InterTrust's sophisticated **DRM** system is designed to enable music labels and distribution companies to deliver content to consumers...

...protection, superdistribution, flexible business rules and content usage tracking opportunities. InterTrust's rules-based, distributed **DRM**

persistently manages and enforces the **rights** of **digital** commerce participants, for both online and offline transactions. Through the use of the MetaTrust Utility and its **DRM** capabilities, these participants benefit from a neutral environment for the automation of digital commerce for...

...PC and on the Internet, and e-commerce participants need the means to ensure their **rights** and support their **digital** commerce businesses.

"InterTrust and our MetaTrust partners, through the use of InterTrust **DRM** technology, intend to fulfil the requirements specified by SDMI, as well as support diverse digital...

...said, "Building SDMI compliant applications on InterTrust Commerce 1.2 enables us to have sophisticated **DRM** capabilities such as persistent protection, superdistribution and flexible business rules."

Johann Butting, director New Technologies...

...based digital, music distribution service, is an exciting challenge for BMG Storage Media. The InterTrust **DRM** platform forms the basis of our initiative to accomplish that goal."

David Watkins, president of...

...SDMI- compliant platform for artists and record labels who want digitally distributed audio to be **copyright** protected as well as for consumers who want access to popular **digital** audio **content**.

Combining our secure www.rioport.com digital audio gateway site with the integrated Rio Audio Navigator software and our new portable Rio digital audio players provides a comprehensive InterTrust **DRM** solution to satisfy the needs of both artists and consumers

Jun Fujiwara, manager, multimedia business, Mitsubishi Corporation, said, SDMI compliant digital music distribution will be enabled by the **DRM** software that is based on InterTrust's Commerce 1.2 system. We look forward to...

...services to enable a music label or distributor to quickly and easily get started with **digital rights management**. We believe the combination of InterTrust's **digital rights management** and NatWest Magex payment processing will provide a new way to sell music over the...

...using InterTrust Commerce 1.2's powerful platform together with Reciprocal's robust suite of **DRM** services to provide customers with sophisticated, comprehensive **DRM** and SDMI compliant systems. The SDMI standards open the door to new business models and...

...Extending SDMI compliance to new codecs, devices and capabilities is now possible with the robust **digital rights management** platform from InterTrust. Advances in codec technology have forced the recording industry to recognise that robust **DRM** technology is essential to the success of tomorrow's music business models. We will be providing advanced codec technology for SDMI-compliant players based on InterTrust **DRM**."

Dr. Karlheinz Brandenburg, head of the Multimedia department at Fraunhofer IIS-A, said, "InterTrust's **rights management** software is designed to provide an SDMI-compliant multi- vendor, interoperable system for persistently securing...

...Corporation

InterTrust has developed, and is shipping, products and services that enable end-to-end **digital rights management** solutions delivered by MetaTrust Utility core partners. MetaTrust Utility core partners include BMG Storage Media...Research Laboratory (STAR Lab) is a computer laboratory whose primary focus is electronic commerce and **digital rights management**.

Founded in 1990, InterTrust is a privately held company with a staff of over 130...

19990721

? ts10/k/1

10/K/1 (Item 1 from file: 15)

ABI/Inform(R)

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Text:

...much more complicated than conversion of existing collections because many additional issues are involved, including **intellectual property** management, quality control and peer review of original research, and the role of publication in...

...state sesquicentennial celebration provided the UW-Madison libraries with the opportunity to produce a new **electronic work combining** many kinds of rich content from our extensive historical collections. In partnership with the State...locate and use. It is also the case that by using older source material, extensive **copyright** discovery and negotiation issues can be avoided and energy instead can be focused on production...

...often have been voiced in connection with electronic publication. One was the potential loss of **intellectual property** due to the ease with which material can be copied from the Web. The other...gaps in expertise or infrastructure. University presses can be valuable partners, supplying editorial services or **intellectual property** management in exchange for libraries' production-support capabilities. Programs such as the University of Michigan...

? d s

Set	Items	Description
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S1	70643070	S PD<19991217
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S2	1786	S (COMBINE OR COMBINING OR COMBINED OR COMBINES)(5N)((DIGITAL OR ELECTRONIC OR DERIVATIVE OR COMPOSITE)(2W)(CONTENT OR WORK? ?))
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S3	86	S (COMPOSITE OR COMPOSITES)(5N)((DIGITAL OR ELECTRONIC OR DERIVATIVE)(2W)(CONTENT OR WORK? ?))
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S4	15	S S1 AND S3
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S5	14	RD (unique items)
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S6	18512683	S (RIGHTS(W)MANAGEMENT) OR ((DIGITAL OR USE OR USAGE)(3N)(PERMISSION OR PERMISSIONS OR RIGHT OR RIGHTS)) OR DRM OR LICENSE OR LICENSED OR LICENSES OR LICENSING OR (INTELLECTUAL(W)(PROPERTY OR PROPERTIES)) OR COPYRIGHT OR COPYRIGHTS
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S7	6	S S1 AND S3 AND S6
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S8	6	RD S7 (unique items)
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S9	79	S S1 AND S2 AND S6
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S10	40	RD (unique items)
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? S (combine or combining or combines or combined or composite)(5n)((DIGITAL OR USE OR USAGE)(3N)(PERMISSION OR PERMISSIONS OR RIGHT OR RIGHTS)) LICENSE OR LICENSED OR LICENSES OR LICENSING)

>>>W: Invalid syntax

>>>E: There is no result

? S (COMBINE OR COMBINING OR COMBINES OR COMBINED OR COMPOSITE)(5N)((DIGITAL OR USE OR USAGE)(3N)(PERMISSION OR PERMISSIONS OR RIGHT OR RIGHTS)) or LICENSE OR LICENSED OR LICENSES OR LICENSING)

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1488788 COMBINE
 1460069 COMBINING
 1367850 COMBINES
 5645835 COMBINED
 1403831 COMPOSITE
 6179197 DIGITAL
 26184846 USE
 1793282 USAGE
 2373604 PERMISSION
 57679 PERMISSIONS
 15578521 RIGHT
 8733865 RIGHTS
 332814 ((DIGITAL OR USE) OR USAGE)(3N)((PERMISSION OR PERMISSIONS) OR RIGHT) OR RIGHTS)
 2493884 LICENSE
 1780333 LICENSED
 1197266 LICENSES
 2649452 LICENSING

S11 20713 S (COMBINE OR COMBINING OR COMBINES OR COMBINED OR COMPOSITE)(5N)((DIGITAL OR USE OR USAGE)(3N)(PERMISSION OR PERMISSIONS OR RIGHT OR RIGHTS)) OR LICENSE OR LICENSED OR LICENSES OR LICENSING)

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Set	Items	Description
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S1	70643070	S PD<19991217
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S2	1786	S (COMBINE OR COMBINING OR COMBINED OR COMBINES)(5N)((DIGITAL OR ELECTRONIC OR DERIVATIVE OR COMPOSITE)(2W)(CONTENT OR WORK? ?))
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S3	86	S (COMPOSITE OR COMPOSITES)(5N)((DIGITAL OR ELECTRONIC OR DERIVATIVE)(2W)(CONTENT OR WORK? ?))
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S4	15	S S1 AND S3
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S5	14	RD (unique items)
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S6	18512683	S (RIGHTS(W)MANAGEMENT) OR ((DIGITAL OR USE OR USAGE)(3N)(PERMISSION OR PERMISSIONS OR RIGHT OR RIGHTS)) OR DRM OR LICENSE OR LICENSED OR LICENSES OR LICENSING OR (INTELLECTUAL(W)(PROPERTY OR PROPERTIES)) OR COPYRIGHT OR COPYRIGHTS
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S7	6	S S1 AND S3 AND S6
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S8	6	RD S7 (unique items)
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S9	79	S S1 AND S2 AND S6
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S10 40 RD (unique items)

S11 20713 S (COMBINE OR COMBINING OR COMBINES OR COMBINED OR COMPOSITE)(5N)((DIGITAL OR USE OR USAGE)(3N)(PERMISSION OR PERMISSIONS OR RIGHT OR RIGHTS)) OR LICENSE OR LICENSED OR LICENSES OR LICENSING)

? s s1 and s11

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70643070 S1

20713 S11

S12 6467 S S1 AND S11

? s s12 and s3

6467 S12

86 S3

S13 5 S S12 AND S3

? t s13/free/all

>>>W: "FREE" is not a valid format name in file(s): 347-349

? d s

Set Items Description

S1 70643070 S PD<19991217

S2 1786 S (COMBINE OR COMBINING OR COMBINED OR COMBINES)(5N)((DIGITAL OR ELECTRONIC OR DERIVATIVE OR COMPOSITE)(2W)(CONTENT OR WORK? ?))

S3 86 S (COMPOSITE OR COMPOSITES)(5N)((DIGITAL OR ELECTRONIC OR DERIVATIVE)(2W)(CONTENT OR WORK? ?))

S4 15 S S1 AND S3

S5 14 RD (unique items)

S6 18512683 S (RIGHTS(W)MANAGEMENT) OR ((DIGITAL OR USE OR USAGE)(3N)(PERMISSION OR PERMISSIONS OR RIGHT OR RIGHTS)) OR DRM OR LICENSE OR LICENSED OR LICENSES OR LICENSING OR (INTELLECTUAL(W)(PROPERTY OR PROPERTIES)) OR COPYRIGHT OR COPYRIGHTS

S7 6 S S1 AND S3 AND S6

S8 6 RD S7 (unique items)

S9 79 S S1 AND S2 AND S6

S10 40 RD (unique items)

S11 20713 S (COMBINE OR COMBINING OR COMBINES OR COMBINED OR COMPOSITE)(5N)((DIGITAL OR USE OR USAGE)(3N)(PERMISSION OR PERMISSIONS OR RIGHT OR RIGHTS)) OR LICENSE OR LICENSED OR LICENSES OR LICENSING)

S12 6467 S S1 AND S11

S13 5 S S12 AND S3

? S (COMBINE OR COMBINING OR COMBINES OR COMBINED OR COMPOSITE)(5N)((DIGITAL OR USE OR USAGE)(3N)(PERMISSION OR PERMISSIONS OR RIGHT OR RIGHTS))

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Processing

1488788 COMBINE

1460069 COMBINING

1367850 COMBINES

5645835 COMBINED

1403831 COMPOSITE

6179197 DIGITAL

26184846 USE

1793282 USAGE

2373604 PERMISSION

57679 PERMISSIONS

15578521 RIGHT

8733865 RIGHTS

S14 884 S (COMBINE OR COMBINING OR COMBINES OR COMBINED OR COMPOSITE)(5N)((DIGITAL OR USE OR USAGE)(3N)(PERMISSION OR PERMISSIONS OR RIGHT OR RIGHTS))

? s s14 and s1

884 S14

70643070 S1

S15 243 S S14 AND S1

? s maximum(3n)(transfer or transfers or use or usage or access)

Processing

Processing

Processing

Processing

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Processing

3591456 MAXIMUM

4738388 TRANSFER

782008 TRANSFERS

26184846 USE

1793282 USAGE

11530344 ACCESS

S16 69098 S MAXIMUM(3N)(TRANSFER OR TRANSFERS OR USE OR USAGE OR ACCESS)

? s s15 and s16

243 S15

69098 S16

S17 9 S S15 AND S16

? t s17/free/all

>>>W: "FREE" is not a valid format name in file(s): 347-349

? rd

>>>W: Duplicate detection is not supported for File 348.

Duplicate detection is not supported for File 349.

Duplicate detection is not supported for File 347.

Records from unsupported files will be retained in the RD set.

? t s18/k/all

18/K/1 (Item 1 from file: 348)

EUROPEAN PATENTS

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Country	Number	Kind	Date		
Type		Pub. Date		Kind	Text
Available Text		Language		Update	Word Count
Total Word Count (Document A)					
Total Word Count (Document B)					
Total Word Count (All Documents)					

Specification: ...be authorized in some way. The amount of money in the Max: field is the **maximum** amount that the **use** will cost. This is the amount that is tentatively debited from the credit server. However...is the sum of the Copy-Counts for all of the versions of the loan **right** of the **digital** work. For a **composite** work, the relevant figure is the minimal such sum of each of the components of...

Specification: ...be authorized in some way. The amount of money in the Max: field is the **maximum** amount that the **use** will cost. This is the amount that is tentatively debited from the credit server. However...is the sum of the Copy-Counts for all of the versions of the loan **right** of the **digital** work. For a **composite** work, the relevant figure is the minimal such sum of each of the components of...

18/K/2 (Item 2 from file: 348)

EUROPEAN PATENTS

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Country	Number	Kind	Date
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Abstract ...requesting access to a digital work. A repository will process each request to access a **composite** digital work by examining the **usage rights** for each individual **digital** work found in the description part of the composite digital work. (see image in original...

Type	Pub. Date	Kind	Text
Available Text	Language	Update	Word Count
Total Word Count (Document A)			
Total Word Count (Document B)			
Total Word Count (All Documents)			

Specification: ...to their work which are honored when the individual digital work is incorporated into a **composite digital** work. The **usage rights** for the work define how the individual digital work may be used and distributed. The

aggregation of the **usage rights** of the individual **digital** works of a **composite** digital work, as well as **usage rights** attached to the **composite** digital work as a whole define how the composite digital work may be used and...

...requesting access to a digital work. A repository will process each request to access a **composite** digital work by examining the **usage rights** for each individual **digital** work found in the description part. ...be authorized in some way. The amount of money in the Max: field is the **maximum** amount that the **use** will cost. This is the amount that is tentatively debited from the credit server. However...is the sum of the Copy-Counts for all of the versions of the loan **right** of the **digital** work. For a **composite** work, the relevant figure is the minimal such sum of each of the components of...

Specification: ...to their work which are honored when the individual digital work is incorporated into a **composite digital** work. The **usage rights** for the work define how the individual digital work may be used and distributed. The aggregation of the **usage rights** of the individual **digital** works of a **composite** digital work, as well as **usage rights** attached to the **composite** digital work as a whole define how the composite digital work may be used and...requesting access to a digital work. A repository will process each request to access a **composite** digital work by examining the **usage rights** for each individual **digital** work found in the description part. Access is granted if the composite digital work if...be authorized in some way. The amount of money in the Max: field is the **maximum** amount that the **use** will cost. This is the amount that is tentatively debited from the credit server. However...is the sum of the Copy-Counts for all of the versions of the loan **right** of the **digital** work. For a **composite** work, the relevant figure is the minimal such sum of each of the components of...

Claims: ...e) associating usage rights to at least one of said plurality of parts of said **composite digital** work, said **usage rights** specifying how the corresponding part may be used and/or distributed;

f) said repository determining...for associating usage rights to at least one of said plurality of parts of said **composite digital** works, said **usage rights** indicating how a recipient for a composite digital work may use and subsequently distribute said part of said **composite** digital work, with said **usage rights** being comprised in said description blocks;

each of said repositories being for managing exchange of...

18/K/3 (Item 3 from file: 348)

EUROPEAN PATENTS

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Country	Number	Kind	Date		
Type		Pub. Date		Kind	Text
Available Text		Language		Update	Word Count
Total Word Count (Document A)					
Total Word Count (Document B)					
Total Word Count (All Documents)					

Specification: ...be authorized in some way. The amount of money in the Max: field is the **maximum** amount that the **use** will cost. This is the amount that is tentatively debited from the credit server. However... ...is the sum of the

Copy-Counts for all of the versions of the loan **right** of the **digital** work. For a **composite** work, the relevant figure is the minimal such sum of each of the components of...

Specification: ...be authorized in some way. The amount of money in the Max: field is the **maximum** amount that the **use** will cost. This is the amount that is tentatively debited from the credit server. However...is the sum of the Copy-Counts for all of the versions of the loan **right** of the **digital** work. For a **composite** work, the relevant figure is the minimal such sum of each of the components of...

18/K/4 (Item 4 from file: 348)

EUROPEAN PATENTS

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Country	Number	Kind	Date		
Type		Pub. Date		Kind	Text
Available Text		Language		Update	Word Count
Total Word Count (Document A)					
Total Word Count (Document B)					
Total Word Count (All Documents)					

Specification: ...be authorized in some way. The amount of money in the Max: field is the **maximum** amount that the **use** will cost. This is the amount that is tentatively debited from the credit server. However...is the sum of the Copy-Counts for all of the versions of the loan **right** of the **digital** work. For a **composite** work, the relevant figure is the minimal such sum of each of the components of...

Specification: ...be authorized in some way. The amount of money in the Max: field is the **maximum** amount that the **use** will cost. This is the amount that is tentatively debited from the credit server However...is the sum of the Copy-Counts for all of the versions of the loan **right** of the **digital** work. For a **composite** work, the relevant figure is the minimal such sum of each of the components of...

18/K/5 (Item 5 from file: 348)

EUROPEAN PATENTS

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Country	Number	Kind	Date		
Type		Pub. Date		Kind	Text
Available Text		Language		Update	Word Count
Total Word Count (Document A)					
Total Word Count (Document B)					
Total Word Count (All Documents)					

Specification: ...be authorized in some way. The amount of money in the Max: field is the **maximum** amount that the **use** will cost. This is the amount that is tentatively debited from the credit server. However...is the sum of the Copy-Counts for all of the versions of the loan **right** of the **digital** work. For a **composite** work, the relevant figure is the minimal such sum of each of the components of...

Specification: ...be authorized in some way. The amount of money in the Max: field is the **maximum** amount that the **use** will cost. This is the amount that is tentatively debited from the credit server. However...is the sum of the Copy-Counts for all of the versions of the loan **right** of the **digital** work. For a **composite** work, the relevant figure is the minimal such sum of each of the components of...

18/K/6 (Item 6 from file: 348)

EUROPEAN PATENTS

(c) 2007 European Patent Office. All rights reserved.

Country	Number	Kind	Date		
Type		Pub. Date		Kind	Text
Available Text		Language		Update	Word Count
Total Word Count (Document A)					
Total Word Count (Document B)					
Total Word Count (All Documents)					

Specification: ...logN(sup(th) stage, all requests have $d(\text{sub}(r,t)) = 0$. By F above, **after** stage j the **maximum** distance of any request is logN-j. When $j = \log N$, then $d(\text{sub}(r,t) \dots \text{Layered Network}$ sets forth pin connections, formatting, timing and the manner in which requests are **combined**, decombined and routed (for **example**, by **use** of fetch-and-add and swap operations). Switch Chip Specification for the Layered Network

1...

18/K/7 (Item 7 from file: 348)

EUROPEAN PATENTS

(c) 2007 European Patent Office. All rights reserved.

Country	Number	Kind	Date		
Type		Pub. Date		Kind	Text
Available Text		Language		Update	Word Count
Total Word Count (Document A)					
Total Word Count (Document B)					
Total Word Count (All Documents)					

Specification: ...with portions broken away and portions in horizontal cross-section at different levels, showing the **right** portion of the apparatus of Figure 11.

Figure 15 is an elevational view basically as...

18/K/8 (Item 1 from file: 349)

PCT FULLTEXT

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	Country	Number	Kind	Date
Patent				19

Detailed Description:

...S - stereo used sub-bands

This parameter ranges from 0 to 31 where 0 means **use** the default **maximum** (27 or 30) sub-bands as specified in the ISO specification when operating in the...audio bit stream. In Figure 3, an ISO/MPEG encoder 1 is shown, with the **digital** audio left and **right** signals, as well as a **composite** ancillary data stream, being processed by the ISO/MPEG encoder 1 into a resulting ISO...

18/K/9 (Item 2 from file: 349)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

	Country	Number	Kind	Date
Patent				19

Detailed Description:

...value chain enabled by the present invention. These parties create control information sets through the **use** of their respective VDE installations. Independently, securely deliverable, component based control information allows efficient 28...business partnerships, agreements, and evolving overall business models which can employ the same content properties **combined**, for example, in differing collections of content representing differing at least in part competitive products...to

provide office-internal control information and mechanisms. For example, office 210 may set a **maximum usage** budget for each individual user and/or group within the office, or it may permit...

? t s10/7/20

10/7/20 (Item 2 from file: 636)

Gale Group Newsletter DB(TM)

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04384933 **Supplier Number: 55219018 (THIS IS THE FULLTEXT)**

INTERTRUST: MetaTrust Partners to use InterTrust Di Digital Rights Management.

M2 Presswire , p NA

July 21 , 1999

Text:

M2 PRESSWIRE-21 July 1999-INTERTRUST: MetaTrust Partners to **use** InterTrust Digital **Rights Management** to build SDMI-compliant music systems (C)1994-99 M2 COMMUNICATIONS LTD

RDATE:200799

* Universal Music Group, BMG Storage Media, Diamond Multimedia RioPort Division, Mitsubishi, NatWest Magex, Reciprocal, The iGroup, Digital Theater Systems, Fraunhofer IIS-A, Mediascience and MusicMatch Announce SDMI Plans

Eleven MetaTrust Partners and InterTrust Technologies Corp., the MetaTrust utility, today jointly announced plans to standardise on employing InterTrust's Commerce 1.2 **Digital Rights Management (DRM)** technologies to build Secure Digital Music Initiative (SDMI) compliant music systems.

Pending the completion and approval of the SDMI Phase One standard, InterTrust technology will enable the protection of digital content on the Internet, as well as host and portable devices. All MetaTrust partners will be able to leverage InterTrust's single **DRM** platform to provide interoperable, trusted and secure products and services.

InterTrust's sophisticated **DRM** system is designed to enable music labels and distribution companies to deliver content to consumers with persistent protection, superdistribution, flexible business rules and content usage tracking opportunities. InterTrust's rules-based, distributed **DRM** persistently manages and enforces the **rights** of **digital** commerce participants, for both online and offline

transactions. Through the use of the MetaTrust Utility and its **DRM** capabilities, these participants benefit from a neutral environment for the automation of digital commerce for content.

Victor Shear, chairman and CEO of InterTrust Technologies Corporation, said, "The issue is to prevent unauthorised use of content, and enable stakeholders to flexibly program and deploy computerised business models. Today, piracy occurs at the PC and on the Internet, and e-commerce participants need the means to ensure their **rights** and support their **digital** commerce businesses.

"InterTrust and our MetaTrust partners, through the use of InterTrust **DRM** technology, intend to fulfil the requirements specified by SDMI, as well as support diverse digital commerce automation models. Through the use of PCs, portable devices, broadcast and the Internet, the MetaTrust partners will be able to provide compelling digital commerce solutions."

MetaTrust Partners

Albhy Galuten, senior vice president, Advanced Technology, eCAT, Universal Music Group, said, "Building SDMI compliant applications on InterTrust Commerce 1.2 enables us to have sophisticated **DRM** capabilities such as persistent protection, superdistribution and flexible business rules."

Johann Butting, director New Technologies of BMG Storage Media, said, "Getting from the SDMI specification to providing our customers with a scaleable, volume-based digital, music distribution service, is an exciting challenge for BMG Storage Media. The InterTrust **DRM** platform forms the basis of our initiative to accomplish that goal."

David Watkins, president of RioPort, Inc., said, "RioPort will provide a complete SDMI- compliant platform for artists and record labels who want digitally distributed audio to be **copyright** protected as well as for consumers who want access to popular **digital** audio **content**. **Combining** our secure www.rioport.com digital audio gateway site with the integrated Rio Audio Navigator software and our new portable Rio digital audio players provides a comprehensive InterTrust **DRM** solution to satisfy the needs of both artists and consumers

Jun Fujiwara, manager, multimedia business, Mitsubishi Corporation, said, SDMI compliant digital music distribution will be enabled by the **DRM** software that is based on InterTrust's Commerce 1.2 system. We look forward to launching these products in Japan."

Peter Beverley, managing director of NatWest Magex, said, "Magex will provide SDMI compliant solutions and services to enable a music label or distributor to quickly and easily get started with **digital rights management**. We believe the combination of InterTrust's **digital rights management** and NatWest Magex payment processing will provide a new way to sell music over the Internet.

Paul Bandrowski, president and chief executive officer of Reciprocal, said, "As an active participant and strong supporter of SDMI, Reciprocal will be using InterTrust Commerce 1.2's powerful platform together with Reciprocal's robust suite of **DRM** services to provide customers with sophisticated, comprehensive **DRM** and SDMI compliant systems. The SDMI standards open the door to new business models and revenue streams for the music industry, and ultimately, because of SDMI, consumers will enjoy easier access to a rich selection of music."

Simon Scott, general manager, The iGroup, the eBusiness division of

Computacenter (UK) Ltd, said, "Labels and distributors who are looking for SDMI-compliant services and business insights should look to The iGroup. We look forward to helping the music industry in the UK and US to make the transition to SDMI-compliant digital distribution."

Dr. Marina Bosi vice president technology, Digital Theater Systems, said, "Extending SDMI compliance to new codecs, devices and capabilities is now possible with the robust **digital rights management** platform from InterTrust. Advances in codec technology have forced the recording industry to recognise that robust **DRM** technology is essential to the success of tomorrow's music business models. We will be providing advanced codec technology for SDMI-compliant players based on InterTrust **DRM**."

Dr. Karlheinz Brandenburg, head of the Multimedia department at Fraunhofer IIS-A, said, "InterTrust's **rights management** software is designed to provide an SDMI-compliant multi-vendor, interoperable system for persistently securing content and managing its use. Fraunhofer IIS-A will work with other MetaTrust partners to provide SDMI-compliant systems and high-quality audio codecs in the future."

AI-Riaz Adatia, director of Mediascience, Inc., said, "Sonique is committed to creating a secure environment for downloadable media. We look forward to enhancing the Sonique experience through our continued collaboration with InterTrust."

Dennis Mudd, president and CEO, MusicMatch, Inc., "MusicMatch is pleased to be working with InterTrust to enable secure distribution of digital content. Our Jukebox will be a leading MetaTrust Certified player for the vending of online digital music."

InterTrust Technologies Corporation

InterTrust has developed, and is shipping, products and services that enable end-to-end **digital rights management** solutions delivered by MetaTrust Utility core partners. MetaTrust Utility core partners include BMG Storage Media, Mitsubishi Corporation, National Westminster Bank Plc (NatWest Magex), Reciprocal and Universal Music Group. Data centre partners include Samsung SDS. Application and Integration Builder partners include Computacenter (UK) Ltd., Diamond Multimedia Systems, Inc.'s RioPort division, Digital Theater Systems, Fraunhofer IIS, Harris Corporation, Mediascience, Inc., MusicMatch, Inc., PublishOne Inc., and Science Applications International Corporation (SAIC).

InterTrust Technologies Corporation, the MetaTrust Utility, provides an interoperable, trusted and secure foundation for electronic commerce. InterTrust software products and services enable the efficient sale, fulfilment and protection of digital content over leading digital media, including the Internet and DVD. InterTrust technology also serves as a foundation for many other forms of trusted commercial interaction.

InterTrust's Strategic Technologies and Architectural Research Laboratory (STAR Lab) is a computer laboratory whose primary focus is electronic commerce and **digital rights management**.

Founded in 1990, InterTrust is a privately held company with a staff of over 130, and has offices in Sunnyvale, California, Washington, D.C., and the United Kingdom. The company's website is at <http://www.intertrust.com>.

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? s digital(w)rights(w)management(w)technology

Processing

Processing

Processing

Processing

Processing

Processing

6179197 DIGITAL

8733865 RIGHTS

24326955 MANAGEMENT

19833465 TECHNOLOGY

S19 3883 S DIGITAL(W)RIGHTS(W)MANAGEMENT(W)TECHNOLOGY

? s s1 and s19

70643070 S1

3883 S19

S20 310 S S1 AND S19

? s s20 and weber

310 S20

274499 WEBER

S21 0 S S20 AND WEBER

? d s

Set Items Description

S1 70643070 S PD<19991217

S2 1786 S (COMBINE OR COMBINING OR COMBINED OR COMBINES)(5N)((DIGITAL OR ELECTRONIC OR DERIVATIVE OR COMPOSITE)(2W)(CONTENT OR WORK? ?))

S3 86 S (COMPOSITE OR COMPOSITES)(5N)((DIGITAL OR ELECTRONIC OR DERIVATIVE)(2W)(CONTENT OR WORK? ?))

S4 15 S S1 AND S3

S5 14 RD (unique items)

S6 18512683 S (RIGHTS(W)MANAGEMENT) OR ((DIGITAL OR USE OR USAGE)(3N)(PERMISSION OR PERMISSIONS OR RIGHT OR RIGHTS)) OR DRM OR LICENSE OR LICENSED OR LICENSES OR LICENSING OR (INTELLECTUAL(W)(PROPERTY OR PROPERTIES)) OR COPYRIGHT OR COPYRIGHTS

S7 6 S S1 AND S3 AND S6

S8 6 RD S7 (unique items)

S9 79 S S1 AND S2 AND S6

S10 40 RD (unique items)

S11 20713 S (COMBINE OR COMBINING OR COMBINES OR COMBINED OR COMPOSITE)(5N)((DIGITAL OR USE OR USAGE)(3N)(PERMISSION OR PERMISSIONS OR RIGHT OR RIGHTS)) OR LICENSE OR LICENSED OR LICENSES OR LICENSING

S12 6467 S S1 AND S11

S13 5 S S12 AND S3

S14 884 S (COMBINE OR COMBINING OR COMBINES OR COMBINED OR COMPOSITE)(5N)((DIGITAL OR USE OR USAGE)(3N)(PERMISSION OR PERMISSIONS OR RIGHT OR RIGHTS))

S15 243 S S14 AND S1

S16 69098 S MAXIMUM(3N)(TRANSFER OR TRANSFERS OR USE OR USAGE OR ACCESS)

S17 9 S S15 AND S16

S18 9 RD (unique items)

S19 3883 S DIGITAL(W)RIGHTS(W)MANAGEMENT(W)TECHNOLOGY

S20 310 S S1 AND S19

S21 0 S S20 AND WEBER

? s s15 and s19

243 S15

3883 S19

S22 13 S S15 AND S19

? t s22/free/all

>>>W: "FREE" is not a valid format name in file(s): 347-349

22/8/1 (Item 1 from file: 610)

Business Wire

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00053830 19990603154B0509 (USE FORMAT 7 FOR FULLTEXT)

Major Worldwide Bank and U.S. Encryption Company Announce New Micro Currency System for Digital Commerce; 'Magex' from NatWest and InterTrust Boosts the Digital Economy

Thursday , June 3, 1999 13:08 EDT

Word Count: 953

Company Names: MAGEX; MAJOR WORLD WIDE LTD INC; REUTERS HOLDINGS PLC; DUN AND BRADSTREET CORP; EQUIFAX INC; TECHNOLOGIES HOLDING CORP; TECHNOLOGIES INTERNATIONAL

Geographic Names: USA; AMERICAS; NORTH AMERICA

Product Names: COMPUTER SECURITY; INTERNET; COMPUTERS; SECURITY; COMMUNICATIONS TECHNOLOGIES

Event Names: TECHNOLOGY DEVELOPMENT

22/8/2 (Item 1 from file: 621)

Gale Group New Prod.Annou.(R)

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02159991 **Supplier Number:** 55615242 (USE FORMAT 7 FOR FULLTEXT)

MusicMatch to Participate in Unique Internet Digital Music Pilot.

August 31 , 1999

Word Count: 803

Publisher Name: PR Newswire Association, Inc.

Company Names: *MusicMatch Inc.; NatWest Group

Event Names: *610 (Contracts & orders received)

Geographic Names: *4EUUK (United Kingdom)

Product Names: *7372500 (Operating Systems & Utilities)

Industry Names: BUS (Business, General); BUSN (Any type of business)

SIC Codes: 7372 (Prepackaged software)
NAICS Codes: 51121 (Software Publishers)

22/8/3 (Item 2 from file: 621)
Gale Group New Prod.Annou.(R)
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01889887 **Supplier Number: 54785571 (USE FORMAT 7 FOR FULLTEXT)**
Major Worldwide Bank and U.S. Encryption Company Announce New Micro Currency System for Digital Commerce; 'Magex' from NatWest and InterTrust Boosts the Digital Economy.

June 3 , 1999
Word Count: 903
Publisher Name: Business Wire
Company Names: *InterTrust Technologies Corp.; NatWest Group
Geographic Names: *1USA (United States); 4EUUK (United Kingdom)
Product Names: *7372000 (Computer Software)
Industry Names: BUS (Business, General); BUSN (Any type of business)
SIC Codes: 7372 (Prepackaged software)
NAICS Codes: 51121 (Software Publishers)

22/8/4 (Item 1 from file: 636)
Gale Group Newsletter DB(TM)
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04190756 **Supplier Number: 54812591 (USE FORMAT 7 FOR FULLTEXT)**

NATWEST: Magex launch boosts the digital economy.

June 4 , 1999
Word Count: 925
Publisher Name: M2 Communications
Company Names: *NatWest Group
Geographic Names: *4EUUK (United Kingdom)
Industry Names: BUSN (Any type of business); INTL (Business, International)

22/8/5 (Item 2 from file: 636)
Gale Group Newsletter DB(TM)
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04190677 **Supplier Number: 54812511 (USE FORMAT 7 FOR FULLTEXT)**

MAGEX: Magex launch boosts the digital economy.

June 4 , 1999
Word Count: 980
Publisher Name: M2 Communications
Company Names: *NatWest Group
Geographic Names: *4EUUK (United Kingdom)

Industry Names: BUSN (Any type of business); INTL (Business, International)

22/8/6 (Item 1 from file: 613)

PR Newswire

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00170964 19990831LATU054A (USE FORMAT 7 FOR FULLTEXT)

MusicMatch to Participate in Unique Internet Digital Music Pilot

Tuesday , August 31, 1999 09:15 EDT

Word Count: 805

Company Names: MusicMatch, Inc.; Magex; NatWest Group; MUSICMATCH INC; NATIONAL WESTMINSTER BANK PLC

Product Names: ENTERTAINMENT; LEISURE; CONTRACTS AND ORDERS; NEW PRODUCT DEVELOPMENT; MARKETING; CORPORATE; COMPUTER SOFTWARE; INTERNET; MUSIC; COMPUTERS; COMMUNICATIONS TECHNOLOGIES

Event Names: CONTRACTS AND ORDERS; NEW PRODUCT DEVELOPMENT; PRODUCT LAUNCHES

22/8/7 (Item 1 from file: 16)

Gale Group PROMT(R)

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06601330 **Supplier Number:** 55615242 (USE FORMAT 7 FOR FULLTEXT)

MusicMatch to Participate in Unique Internet Digital Music Pilot.

August 31 , 1999

Word Count: 803

Publisher Name: PR Newswire Association, Inc.

Company Names: *MusicMatch Inc.; NatWest Group

Event Names: *610 (Contracts & orders received)

Geographic Names: *4EUUK (United Kingdom)

Product Names: *7372500 (Operating Systems & Utilities)

Industry Names: BUS (Business, General); BUSN (Any type of business)

SIC Codes: 7372 (Prepackaged software)

NAICS Codes: 51121 (Software Publishers)

Special Features: COMPANY

22/8/8 (Item 2 from file: 16)

Gale Group PROMT(R)

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06384614 **Supplier Number:** 54785571 (USE FORMAT 7 FOR FULLTEXT)

Major Worldwide Bank and U.S. Encryption Company Announce New Micro Currency System for Digital Commerce; 'Magex' from NatWest and InterTrust Boosts the Digital Economy.

June 3 , 1999

Word Count: 903

Publisher Name: Business Wire
Company Names: *InterTrust Technologies Corp.; NatWest Group
Geographic Names: *1USA (United States); 4EUUK (United Kingdom)
Product Names: *7372000 (Computer Software)
Industry Names: BUS (Business, General); BUSN (Any type of business)
SIC Codes: 7372 (Prepackaged software)
NAICS Codes: 51121 (Software Publishers)
Special Features: LOB; COMPANY

22/8/9 (Item 1 from file: 148)
Gale Group Trade & Industry DB
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0019745407 **Supplier Number:** 54812591 (USE FORMAT 7 OR 9 FOR FULL TEXT)
NATWEST: Magex launch boosts the digital economy.

June 4 , 1999
Word Count: 980 **Line Count:** 00087
Company Names: NatWest Group Moscow
Industry Codes/Names: BUSN Business; INTL Business, international
Geographic Codes: 4EUUK United Kingdom

22/8/10 (Item 2 from file: 148)
Gale Group Trade & Industry DB
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0019745328 **Supplier Number:** 54812511 (USE FORMAT 7 OR 9 FOR FULL TEXT)
MAGEX: Magex launch boosts the digital economy.

June 4 , 1999
Word Count: 1028 **Line Count:** 00091
Company Names: NatWest Group Moscow
Industry Codes/Names: BUSN Business; INTL Business, international
Geographic Codes: 4EUUK United Kingdom

22/8/11 (Item 3 from file: 148)
Gale Group Trade & Industry DB
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11306840 **Supplier Number:** 55615242 (USE FORMAT 7 OR 9 FOR FULL TEXT)
MusicMatch to Participate in Unique Internet Digital Music Pilot.

August 31 , 1999
Word Count: 850 **Line Count:** 00073
Company Names: MusicMatch Inc.--Contracts; NatWest Group--Contracts
Industry Codes/Names: BUS Business, General; BUSN Any type of business
Descriptors: Computer software industry--Contracts

Geographic Codes: 4EUUK United Kingdom
Product/Industry Names: 7372500 (Operating Systems & Utilities)
Event Codes/Names: 610 Contracts & orders received
Product/Industry Names: 7372 Prepackaged software
NAICS Codes: 51121 Software Publishers
File Segment: NW File 649

22/8/12 (Item 4 from file: 148)
Gale Group Trade & Industry DB
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11089793 **Supplier Number:** 54785571 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Major Worldwide Bank and U.S. Encryption Company Announce New Micro Currency System for Digital Commerce; 'Magex' from NatWest and InterTrust Boosts the Digital Economy.

June 3 , 1999
Word Count: 957 **Line Count:** 00084
Company Names: InterTrust Technologies Corp.; NatWest Group

Industry Codes/Names: BUS Business, General; BUSN Any type of business
Descriptors: Computer software industry
Geographic Codes: 1USA United States; 4EUUK United Kingdom
Product/Industry Names: 7372000 (Computer Software)
Product/Industry Names: 7372 Prepackaged software
NAICS Codes: 51121 Software Publishers
File Segment: NW File 649

22/8/13 (Item 1 from file: 20)
Dialog Global Reporter
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06963087 (USE FORMAT 7 OR 9 FOR FULLTEXT)
MusicMatch to Participate in Unique Internet Digital Music Pilot

August 31, 1999
Word Count: 809
Country Names/Codes: United States of America (US)
Regions: Americas; North America; Pacific Rim
SIC Codes/Descriptions: 7372 (Prepackaged Software); 7993 (coin-operated amusement devices); 7375 (Information Retrieval Services)

22/K/13 (Item 1 from file: 20)
Dialog Global Reporter
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(USE FORMAT 7 OR 9 FOR FULLTEXT)

...Internet in an SDMI compliant way."

Magex, part of major international bank NatWest, has used **digital rights management technology** from InterTrust and **combined** it with its global multi-currency payments expertise to provide a complete digital commerce solution...

...it with NatWest's clearing house expertise to develop a highly effective online solution.

Magex **combines** the best in **digital rights** management with world class financial backing to provide a commercial solution, which will benefit consumers...

19990831

? ds

Set Items Description

S1 70643070 S PD<19991217

S2 1786 S (COMBINE OR COMBINING OR COMBINED OR COMBINES)(5N)((DIGITAL OR ELECTRONIC OR DERIVATIVE OR COMPOSITE)(2W)(CONTENT OR WORK? ?))

S3 86 S (COMPOSITE OR COMPOSITES)(5N)((DIGITAL OR ELECTRONIC OR DERIVATIVE)(2W)(CONTENT OR WORK? ?))

S4 15 S S1 AND S3

S5 14 RD (unique items)

S6 18512683 S (RIGHTS(W)MANAGEMENT) OR ((DIGITAL OR USE OR USAGE)(3N)(PERMISSION OR PERMISSIONS OR RIGHT OR RIGHTS)) OR DRM OR LICENSE OR LICENSED OR LICENSES OR LICENSING OR (INTELLECTUAL(W)(PROPERTY OR PROPERTIES)) OR COPYRIGHT OR COPYRIGHTS

S7 6 S S1 AND S3 AND S6

S8 6 RD S7 (unique items)

S9 79 S S1 AND S2 AND S6

S10 40 RD (unique items)

S11 20713 S (COMBINE OR COMBINING OR COMBINES OR COMBINED OR COMPOSITE)(5N)((DIGITAL OR USE OR USAGE)(3N)(PERMISSION OR PERMISSIONS OR RIGHT OR RIGHTS)) OR LICENSE OR LICENSED OR LICENSES OR LICENSING

S12 6467 S S1 AND S11

S13 5 S S12 AND S3

S14 884 S (COMBINE OR COMBINING OR COMBINES OR COMBINED OR COMPOSITE)(5N)((DIGITAL OR USE OR USAGE)(3N)(PERMISSION OR PERMISSIONS OR RIGHT OR RIGHTS))

S15 243 S S14 AND S1

S16 69098 S MAXIMUM(3N)(TRANSFER OR TRANSFERS OR USE OR USAGE OR ACCESS)

S17 9 S S15 AND S16

S18 9 RD (unique items)

S19 3883 S DIGITAL(W)RIGHTS(W)MANAGEMENT(W)TECHNOLOGY

S20 310 S S1 AND S19

S21 0 S S20 AND WEBER

S22 13 S S15 AND S19

? s (digital(w)rights(w)management)

Processing

Processing

Processing

Processing

6179197 DIGITAL

8733865 RIGHTS

24326955 MANAGEMENT

S23 52049 S (DIGITAL(W)RIGHTS(W)MANAGEMENT)

? s s23 and weber

52049 S23

274499 WEBER

S24 572 S S23 AND WEBER

? s s24 and robert

572 S24

6307747 ROBERT

S25 79 S S24 AND ROBERT

? t s25/free/all

>>>W: "FREE" is not a valid format name in file(s): 347-349

25/8/1 (Item 1 from file: 610)

Business Wire

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0001243458 ICDDBABE0898D11D99F61A23D5552FC8F (USE FORMAT 7 FOR FULLTEXT)

PTC Affirms Zero Tolerance Anti-Piracy Stance

Monday , February 28, 2005 T13:01:00Z

Word Count: 516

Geographic Names: AMERICAS; NORTH AMERICA; USA

Product Names: COMPUTER SOFTWARE; INFORMATION MANAGEMENT; SECURITY; KNOWLEDGE MANAGEMENT; COPYRIGHT

Event Names: JOINT VENTURES; PATENTS AND TRADEMARKS; CORPORATE GROUPS AND OWNERSHIP

25/8/2 (Item 2 from file: 610)

Business Wire

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00573640 20010816228B4421 (USE FORMAT 7 FOR FULLTEXT)

CMJ Announces Featured Speakers and Panel Lineup for CMJ Music Marathon 2001-Daytime Events

Include Featured Speakers Dave Navarro and Billy Martin of Medeski, Martin & Wood

Thursday , August 16, 2001 09:10 EDT

Word Count: 745

Company Names: NEW MEDIA

Product Names: BROADCASTING; COMMUNICATIONS TECHNOLOGIES; COMPUTERS; DATA COMMUNICATIONS; ENTERTAINMENT; LEISURE; MAGAZINES; MEDIA INDUSTRIES; MUSIC; NETWORKS; PUBLISHING; RADIO STATIONS

Event Names: CONTRACTS AND ORDERS

25/8/3 (Item 3 from file: 610)

Business Wire

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00470626 20010227058B9427 (USE FORMAT 7 FOR FULLTEXT)

Reciprocal Adds e-Publishing Leader RosettaBooks to Client Roster; RosettaBooks Launch Enabled by Reciprocal

Tuesday , February 27, 2001 09:03 EST

Word Count: 786

Company Names: amazon.com, inc.; MICROSOFT CORP; BURLINGTON NORTHERN SANTA FE CORP; ADOBE SYSTEMS INC; SONY MUSIC ENTERTAINMENT; BMG ENTERTAINMENT INTERNATIONAL UK AND; ZOMBA MUSIC HOLDINGS BV; RANDOM HOUSE; ADVANCED MARKETING SERVICES INC ; ABERDEEN INC

Geographic Names: NEW YORK; AMERICAS; NORTH AMERICA; USA

Product Names: BOOKS; COMPUTER SOFTWARE; ELECTRONIC PUBLISHING; INTERNET; LEISURE;

PUBLISHING; COMPUTERS; COMMUNICATIONS TECHNOLOGIES

25/8/4 (Item 4 from file: 610)

Business Wire

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00444426 20010118018B2946 (USE FORMAT 7 FOR FULLTEXT)

TrustData Solutions Appoints Abraham Sofaer and Nina Burns to Industry Advisory Board-Noted National Security Affairs Authority and eBusiness Expert to Advise Company on Legal, Government and Business Issues

Thursday , January 18, 2001 10:47 EST

Word Count: 801

Company Names: ADVISE LTD; HEALTH PLUS INC; SYTEL; HEPTA; CREATIVE NETWORKS INC; CREATIVE NETWORKS LLC; FORTUNE; DEFENSE LOGISTICS AGENCY; GOVERNMENT OF THE UNITED STATES; PESCADERO LTD; NORTHEAST CONSULTING RESOURCES INC; TECHNOLOGY INC; HEALTHCARE INFORMATION

Geographic Names: CALIFORNIA; USA; AMERICAS; NORTH AMERICA

Product Names: COMPUTER SOFTWARE; CORPORATE NETWORKS; INTERNATIONAL ISSUES; INTERNET; LEGAL; MANAGEMENT CHANGES; MANAGEMENT SOFTWARE; NETWORKS; POLITICAL AND PUBLIC AFFAIRS; COMPUTERS; COMMUNICATIONS TECHNOLOGIES; CORPORATE; INSTITUTIONS; COMPANY PROFILES; DATA COMMUNICATIONS

Event Names: COMPANY PROFILES; GOVERNMENT; INTERNATIONAL ISSUES; LEGAL; ORGANISATIONS AND INSTITUTIONS; POLITICAL AND PUBLIC AFFAIRS; SERVICES; TECHNOLOGY DEVELOPMENT

25/8/5 (Item 5 from file: 610)

Business Wire

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00250019 20000405096B0382 (USE FORMAT 7 FOR FULLTEXT)

ASPSecure.com Closes \$9 Million in Funding

Wednesday , April 5, 2000 16:51 EDT

Word Count: 592

Company Names: silicon valley plc; intertrust technologies corporation; STEPHENS GROUP; FIRST ALBANY CORP; FIRST ALBANY COMPANIES INC; DATA DIMENSIONS INC; BORLAND INTERNATIONAL INC

Geographic Names: CALIFORNIA; NEW YORK; USA; AMERICAS; NORTH AMERICA

Product Names: COMPUTER SOFTWARE; INTERNET; COMPUTERS; COMMUNICATIONS TECHNOLOGIES

Event Names: SERVICES; TECHNOLOGY DEVELOPMENT

25/8/6 (Item 6 from file: 610)

Business Wire

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00236588 20000320080B5553 (USE FORMAT 7 FOR FULLTEXT)

ASPSecure.com Closes \$9 Million in Funding

Monday , March 20, 2000 07:17 EST

Word Count: 592

Company Names: data dimensions, inc.; intertrust technologies corporation; STEPHENS GROUP; FIRST ALBANY CORP; FIRST ALBANY COMPANIES INC; DATA DIMENSIONS INC; BORLAND INTERNATIONAL INC

Geographic Names: CALIFORNIA; NEW YORK; USA; AMERICAS; NORTH AMERICA

Product Names: COMPUTER SOFTWARE; INTERNET; COMPUTERS; COMMUNICATIONS TECHNOLOGIES

Event Names: SERVICES; TECHNOLOGY DEVELOPMENT

25/8/7 (Item 1 from file: 621)

Gale Group New Prod.Annou.(R)

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04484631 **Supplier Number:** 140434783 (USE FORMAT 7 FOR FULLTEXT)

Starz Entertainment Group Ignites Portable Internet Video Market With the Launch of Vongo(SM).

Jan 3 , 2006

Word Count: 2031

Publisher Name: PR Newswire Association LLC

Company Names: *Microsoft Corp.; Sony Corp.

Descriptors: *Computer software industry; Consumer electronics industry

Geographic Names: *1USA (United States); 9JAPA (Japan)

Industry Names: BUSN (Business); BUS (Business, general)

SIC Codes: 7372 (Prepackaged software); 3651 (Household audio and video equipment)

Ticker Symbols: MSFT; SNE

25/8/8 (Item 2 from file: 621)

Gale Group New Prod.Annou.(R)

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04197922 **Supplier Number:** 132400553 (USE FORMAT 7 FOR FULLTEXT)

Microsoft and Partners Announce New Era of Digital Devices Enabling Consumers to Take Entertainment Throughout the Home and On the Go.

Oct 12 , 2004

Word Count: 3276

Publisher Name: PR Newswire Association LLC

Company Names: *Microsoft Corp.; Samsung Group

Descriptors: *Computer software industry

Geographic Names: *9SOUT (South Korea); 1USA (United States)

Industry Names: BUSN (Business); BUS (Business, general)

SIC Codes: 7372 (Prepackaged software)

Ticker Symbols: MSFT

25/8/9 (Item 3 from file: 621)

Gale Group New Prod. Annou.(R)

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04126917 **Supplier Number: 132141473 (USE FORMAT 7 FOR FULLTEXT)**

Microsoft Releases New Windows Media Data Session Toolkit Enabling 'Second Session' Creation.

Jan 20 , 2003

Word Count: 1293

Publisher Name: PR Newswire Association LLC

Company Names: *Microsoft Corp.; SunnComm Technologies Inc.; Universal Music Group

Descriptors: *Sound recording industry; Computer services industry; Computer software industry

Geographic Names: *1USA (United States)

Industry Names: BUSN (Business); BUS (Business, general)

SIC Codes: 3652 (Prerecorded records and tapes); 7370 (Computer and Data Processing Services); 7372 (Prepackaged software)

Ticker Symbols:

MSFT

25/8/10 (Item 4 from file: 621)

Gale Group New Prod. Annou.(R)

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03833295 **Supplier Number: 123644129 (USE FORMAT 7 FOR FULLTEXT)**

PR Newswire Summary of High Tech Copy, Oct. 26, 2004.

Oct 26 , 2004

Word Count: 3075

Publisher Name: PR Newswire Association LLC

Industry Names: BUSN (Business); BUS (Business, general)

25/8/11 (Item 5 from file: 621)

Gale Group New Prod. Annou.(R)

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03565571 **Supplier Number: 109662347 (USE FORMAT 7 FOR FULLTEXT)**

PR Newswire National Summary, Tuesday, Nov. 4, Midnight to 10 a.m. ET.

Nov 4 , 2003

Word Count: 3305

Publisher Name: PR Newswire Association, Inc.

Industry Names: BUS (Business, General); BUSN (Any type of business)

25/8/12 (Item 6 from file: 621)

Gale Group New Prod.Annou.(R)
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02965550 **Supplier Number: 77248364 (USE FORMAT 7 FOR FULLTEXT)**
CMJ Announces Featured Speakers and Panel Lineup for CMJ Music Marathon 2001.

August 16 , 2001
Word Count: 786
Publisher Name: Business Wire
Industry Names: BUS (Business, General); BUSN (Any type of business)

25/8/13 (Item 7 from file: 621)
Gale Group New Prod.Annou.(R)
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02783939 **Supplier Number: 69272293 (USE FORMAT 7 FOR FULLTEXT)**
TrustData Solutions Appoints Abraham Sofaer and Nina Burns to Industry Advisory Board.

Jan 18 , 2001
Word Count: 868
Publisher Name: Business Wire
Industry Names: BUS (Business, General); BUSN (Any type of business)

25/8/14 (Item 8 from file: 621)
Gale Group New Prod.Annou.(R)
(c) 2007 The Gale Group. All rights reserved.
02778267 **Supplier Number: 68949937 (USE FORMAT 7 FOR FULLTEXT)**
RightsShare(TM) P2P Software Capabilities Enable Content Creators To Protect, Publish and Share Digital Assets.

Jan 10 , 2001
Word Count: 1458
Publisher Name: PR Newswire Association, Inc.
Company Names: *InterTrust Technologies Corp.
Product Names: *3661257 (LAN/WAN Adapters); 7372000 (Computer Software)
Industry Names: BUS (Business, General); BUSN (Any type of business)
SIC Codes: 3661 (Telephone and telegraph apparatus); 7372 (Prepackaged software)
NAICS Codes: 33421 (Telephone Apparatus Manufacturing); 51121 (Software Publishers)

25/8/15 (Item 9 from file: 621)
Gale Group New Prod.Annou.(R)
(c) 2007 The Gale Group. All rights reserved.
02442945 **Supplier Number: 61301809 (USE FORMAT 7 FOR FULLTEXT)**
ASPSecure.com Closes \$9 Million in Funding.

April 5 , 2000

Word Count: 578

Publisher Name: Business Wire

Company Names: *InterTrust Technologies Corp.

Product Names: *7372000 (Computer Software)

Industry Names: BUS (Business, General); BUSN (Any type of business)

SIC Codes: 7372 (Prepackaged software)

NAICS Codes: 51121 (Software Publishers)

25/8/16 (Item 10 from file: 621)

Gale Group New Prod.Annou.(R)

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02432575 **Supplier Number:** 60264232 (USE FORMAT 7 FOR FULLTEXT)

ASPSecure.com Closes \$9 Million in Funding.

March 20 , 2000

Word Count: 578

Publisher Name: Business Wire

Company Names: *InterTrust Technologies Corp.

Product Names: *7372000 (Computer Software)

Industry Names: BUS (Business, General); BUSN (Any type of business)

SIC Codes: 7372 (Prepackaged software)

NAICS Codes: 51121 (Software Publishers)

25/8/17 (Item 1.1 from file: 621)

Gale Group New Prod.Annou.(R)

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02273479 **Supplier Number:** 58486474 (USE FORMAT 7 FOR FULLTEXT)

(2) New Firm ASPSecure.com to Enable Secure e-Commerce Applications; First Company to Protect and Track Digital Content for ASP Market.

Dec 7 , 1999

Word Count: 495

Publisher Name: PR Newswire Association, Inc.

Company Names: *InterTrust Technologies Corp.

Geographic Names: *1USA (United States)

Product Names: *7372000 (Computer Software)

Industry Names: BUS (Business, General); BUSN (Any type of business)

SIC Codes: 7372 (Prepackaged software)

NAICS Codes: 51121 (Software Publishers)

25/8/18 (Item 12 from file: 621)

Gale Group New Prod.Annou.(R)

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02250793 **Supplier Number:** 58047818 (USE FORMAT 7 FOR FULLTEXT)

New Firm ASPSecure.com to Enable Secure e-Commerce Applications; First Company to Protect and Track Digital Content for ASP Market.

Dec 7 , 1999

Word Count: 493

Publisher Name: PR Newswire Association, Inc.

Company Names: *InterTrust Technologies Corp.

Geographic Names: *1USA (United States)

Product Names: *7372000 (Computer Software)

Industry Names: BUS (Business, General); BUSN (Any type of business)

SIC Codes: 7372 (Prepackaged software)

NAICS Codes: 51121 (Software Publishers)

25/8/19 (Item 13 from file: 621)

Gale Group New Prod.Annou.(R)

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01336779 **Supplier Number:** 46072849 (USE FORMAT 7 FOR FULLTEXT)

ROBERT WEBER NAMED EPR(TM) SENIOR VICE PRESIDENT

Jan 17 , 1996

Word Count: 694

Publisher Name: PR Newswire Association, Inc.

Company Names: *Electronic Publishing Resource

Event Names: *540 (Executive changes & profiles)

Geographic Names: *1USA (United States)

Product Names: *7372000 (Computer Software)

Industry Names: BUS (Business, General); BUSN (Any type of business)

NAICS Codes: 51121 (Software Publishers)

25/8/20 (Item 1 from file: 613)

PR Newswire

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0001904708 I8874D2407C5611DABA5BB35F77C05934 (USE FORMAT 7 FOR FULLTEXT)

Starz Entertainment Group Ignites Portable Internet Video Market With the Launch of Vongo(SM)

Innovative Content Application Will Drive New Era in Portable Video

Tuesday , January 3, 2006 T12:30:00Z

Word Count: 1,942

Company Names: PCS INC; LIBERTY MEDIA GROUP; REALNETWORKS INC; MICROSOFT CORP; LIBERTY MEDIA CORP; VIVENDI UNIVERSAL SA; UNIVERSAL PICTURES; SONY PICTURES ENTERTAINMENT INC; SONY CORP

Geographic Names: NORTH AMERICA; AMERICAS; USA

Product Names: BROADCASTING; REGULATION; TELECOMMUNICATIONS; COMPUTER SOFTWARE; MEDIA INDUSTRIES; PORTABLE COMPUTERS; COMPUTER HARDWARE; COMPUTERS; INTERNET; ENTERTAINMENT; LEISURE; TELEVISIONS; TECHNOLOGY DEVELOPMENT; COMPUTER

PERIPHERALS; BIG BUSINESS; LEGAL; COPYRIGHT; BUSINESS SERVICES; INTERNATIONAL ECONOMIC RELATIONS; ECONOMIC DEVELOPMENT

Event Names: REGULATION; TECHNOLOGY DEVELOPMENT; MAJOR CORPORATIONS; LEGAL; ECONOMIC DEVELOPMENT

25/8/21 (Item 2 from file: 613)

PR Newswire

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0001676216 19B0936601CB911D9BE28D52CDBCC1424 (USE FORMAT 7 FOR FULLTEXT)

Microsoft and Partners Announce New Era of Digital Devices Enabling Consumers to Take Entertainment Throughout the Home and On the Go Microsoft Launches New PlaysForSure Logo Program for Consumers to Choose Devices and Online Stores That Work Together

Tuesday , October 12, 2004 T18:00:00Z

Word Count: 3,141

Company Names: DELL INC; AUDIOVOX CORP; MICROSOFT CORP; WAL MART STORES INC; SAMSUNG ELECTRONICS CO LTD; GATEWAY INC; VIRGIN GROUP PLC; SAMSUNG CORP; TRANS WORLD ENTERTAINMENT CORP

Geographic Names: NORTH AMERICA; CALIFORNIA; AMERICAS; USA

Product Names: RETAILING AND DISTRIBUTION; LEISURE; MOBILE COMMUNICATIONS; PORTABLE COMPUTERS; CONSUMER ELECTRONICS; TELECOMMUNICATIONS; COMPUTER SOFTWARE; RETAILERS; TELEPHONES; VIDEO EQUIPMENT; COMPUTERS; ELECTRONIC COMMERCE; COMPUTER PERIPHERALS; DATABASES; REGULATION; MULTIMEDIA; ENTERTAINMENT; TELEVISIONS; INTERNET; COMPUTER GRAPHICS; MUSIC; INFORMATION MANAGEMENT; ELECTRONICS INDUSTRY; BROADCASTING; MEDIA INDUSTRIES

Event Names: MAJOR CORPORATIONS; ECONOMIC DEVELOPMENT

25/8/22 (Item 3 from file: 613)

PR Newswire

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00920901 20030120SFM020 (USE FORMAT 7 FOR FULLTEXT)

Microsoft Releases New Windows Media Data Session Toolkit

Monday , January 20, 2003 03:07 EST

Word Count: 1,205

Company Names: Microsoft Corp.; SunnComm Technologies Inc.; INTERNATIONAL GROUP; UNIVERSAL MUSIC; UNIVERSAL MUSIC INC; UNIVERSAL MUSIC CO; DIGITAL DISTRIBUTION INC; DIGITAL DISTRIBUTION LTD; DIGITAL DISTRIBUTION GMBH; MILLER/SHANDWICK TECHNOLOGIES LTD

Geographic Names: EUROPE; EUROPEAN UNION; FRANCE; WESTERN EUROPE

Product Names: CORPORATE; MARKETING; NEW PRODUCT DEVELOPMENT; COMMUNICATIONS TECHNOLOGIES; COMPUTER HARDWARE; COMPUTER PERIPHERALS; COMPUTER SOFTWARE; COMPUTER STORAGE; COMPUTERS; ENTERTAINMENT; INTERNET; LEISURE; MULTIMEDIA SOFTWARE; MUSIC; OPTICAL DISCS

Event Names: PRODUCT LAUNCHES; NEW PRODUCT DEVELOPMENT; PATENTS AND TRADEMARKS;

TECHNOLOGY DEVELOPMENT

25/8/23 (Item 4 from file: 613)

PR Newswire

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00491680 20010110DCW031 (USE FORMAT 7 FOR FULLTEXT)

Rightsshare(TM) P2p Software Capabilities Enable Content Creators to Protect, Publish And Share Digital Assets

Wednesday , January 10, 2001 10:30 EST

Word Count: 1,390

Company Names: TrustData Solutions Corporation; InterTrust Technologies Corporation; HEALTH PLUS INC; TECHNOLOGIES HOLDING CORP; TECHNOLOGIES INTERNATIONAL; SECURITIES AND EXCHANGE COMMISSION

Product Names: NEW PRODUCT DEVELOPMENT; MARKETING; CORPORATE; COMPUTER SECURITY; COMPUTER SOFTWARE; COPYRIGHT; NETWORKS; PATENTS AND TRADEMARKS; COMPUTERS; SECURITY; LEGAL; COMMUNICATIONS TECHNOLOGIES; DATA COMMUNICATIONS

Event Names: NEW PRODUCT DEVELOPMENT; PRODUCT LAUNCHES; LEGAL; PATENTS AND TRADEMARKS; SERVICES; TECHNOLOGY DEVELOPMENT

25/8/24 (Item 5 from file: 613)

PR Newswire

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00227206 19991207HSTU028 (USE FORMAT 7 FOR FULLTEXT)

New Firm ASPSecure.com to Enable Secure e-Commerce Applications; First Company to Protect and Track Digital Content for ASP Market

Tuesday , December 7, 1999 06:00 EST

Word Count: 497

Company Names: ASPSecure.com; FIRST; MSC SOFTWARE LTD; ASCENT LOGIC CORP; PESCADERO LTD

Geographic Names: CALIFORNIA; AMERICAS; NORTH AMERICA; USA

Product Names:

BUSINESS SERVICES; ELECTRONIC COMMERCE; COMMUNICATIONS TECHNOLOGIES

Event Names: SERVICES

25/8/25 (Item 1 from file: 813)

PR Newswire

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0902844 SFW011

ROBERT WEBER NAMED EPR(TM) SENIOR VICE PRESIDENT

Date: January 17, 1996

Word Count: 661

Company Name: ELECTRONIC PUBLISHING RESOURCES INC.

Product: COMPUTER, ELECTRONICS (CPR)

Descriptors: PERSONNEL ANNOUNCEMENTS (PER)

State: CALIFORNIA (CA)

Section Heading: BUSINESS; TECHNOLOGY

25/8/26 (Item 1 from file: 16)

Gale Group PROMT(R)

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12815963 **Supplier Number:** 140434783 (USE FORMAT 7 FOR FULLTEXT)

Starz Entertainment Group Ignites Portable Internet Video Market With the Launch of Vongo(SM).

Jan 3 , 2006

Word Count: 2031

Publisher Name: PR Newswire Association LLC

Company Names: *Microsoft Corp.; Sony Corp.

Descriptors: *Computer software industry; Consumer electronics industry

Geographic Names: *1USA (United States); 9JAPA (Japan)

Industry Names: BUSN (Business); BUS (Business, general)

SIC Codes: 7372 (Prepackaged software); 3651 (Household audio and video equipment)

Ticker Symbols: MSFT; SNE

25/8/27 (Item 2 from file: 16)

Gale Group PROMT(R)

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12378847 **Supplier Number:** 132400553 (USE FORMAT 7 FOR FULLTEXT)

Microsoft and Partners Announce New Era of Digital Devices Enabling Consumers to Take Entertainment Throughout the Home and On the Go.

Oct 12 , 2004

Word Count: 3276

Publisher Name: PR Newswire Association LLC

Company Names: *Microsoft Corp.; Samsung Group

Descriptors: *Computer software industry

Geographic Names: *9SOUT (South Korea); 1USA (United States)

Industry Names: BUSN (Business); BUS (Business, general)

SIC Codes: 7372 (Prepackaged software)

Ticker Symbols: MSFT

25/8/28 (Item 3 from file: 16)

Gale Group PROMT(R)

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12337876 **Supplier Number: 132141473 (USE FORMAT 7 FOR FULLTEXT)**

Microsoft Releases New Windows Media Data Session Toolkit Enabling 'Second Session' Creation.

Jan 20 , 2003

Word Count: 1293

Publisher Name: PR Newswire Association LLC

Company Names: *Microsoft Corp.; SunnComm Technologies Inc.; Universal Music Group

Descriptors: *Sound recording industry; Computer services industry; Computer software industry

Geographic Names: *1USA (United States)

Industry Names: BUSN (Business); BUS (Business, general)

SIC Codes: 3652 (Prerecorded records and tapes); 7370 (Computer and Data Processing Services); 7372 (Prepackaged software)

Ticker Symbols: MSFT

25/8/29 (Item 4 from file: 16)

Gale Group PROMT(R)

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11583150 **Supplier Number: 123644129 (USE FORMAT 7 FOR FULLTEXT)**

PR Newswire Summary of High Tech Copy, Oct. 26, 2004.

Oct 26 , 2004

Word Count: 3075

Publisher Name: PR Newswire Association LLC

Industry Names: BUSN (Business); BUS (Business, general)

25/8/30 (Item 5 from file: 16)

Gale Group PROMT(R)

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10816989 **Supplier Number: 109662347 (USE FORMAT 7 FOR FULLTEXT)**

PR Newswire National Summary, Tuesday, Nov. 4, Midnight to 10 a.m. ET.

Nov 4 , 2003

Word Count: 3305

Publisher Name: PR Newswire Association, Inc.

Industry Names: BUS (Business, General); BUSN (Any type of business)

25/8/31 (Item 6 from file: 16)

Gale Group PROMT(R)

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08907238 **Supplier Number: 77248364 (USE FORMAT 7 FOR FULLTEXT)**

CMJ Announces Featured Speakers and Panel Lineup for CMJ Music Marathon 2001.

August 16 , 2001

Word Count: 786

Publisher Name: Business Wire

Industry Names: BUS (Business, General); BUSN (Any type of business)

25/8/32 (Item 7 from file: 16)

Gale Group PROMT(R)

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08228074 **Supplier Number:** 69272293 (USE FORMAT 7 FOR FULLTEXT)

TrustData Solutions Appoints Abraham Sofaer and Nina Burns to Industry Advisory Board.

Jan 18 , 2001

Word Count: 868

Publisher Name: Business Wire

Industry Names: BUS (Business, General); BUSN (Any type of business)

25/8/33 (Item 8 from file: 16)

Gale Group PROMT(R)

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08209225 **Supplier Number:** 68949937 (USE FORMAT 7 FOR FULLTEXT)

RightsShare(TM) P2P Software Capabilities Enable Content Creators To Protect, Publish and Share Digital Assets.

Jan 10 , 2001

Word Count: 1458

Publisher Name: PR Newswire Association, Inc.

Company Names: *InterTrust Technologies Corp.

Product Names: *3661257 (LAN/WAN Adapters); 7372000 (Computer Software)

Industry Names: BUS (Business, General); BUSN (Any type of business)

SIC Codes: 3661 (Telephone and telegraph apparatus); 7372 (Prepackaged software)

NAICS Codes: 33421 (Telephone Apparatus Manufacturing); 51121 (Software Publishers)

Special Features: LOB; COMPANY

25/8/34 (Item 9 from file: 16)

Gale Group PROMT(R)

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07170530 **Supplier Number:** 61301809 (USE FORMAT 7 FOR FULLTEXT)

ASPSecure.com Closes \$9 Million in Funding.

April 5 , 2000

Word Count: 578

Publisher Name: Business Wire

Company Names: *InterTrust Technologies Corp.
Product Names: *7372000 (Computer Software)
Industry Names: BUS (Business, General); BUSN (Any type of business)
SIC Codes: 7372 (Prepackaged software)
NAICS Codes: 51121 (Software Publishers)
Special Features: LOB; COMPANY

25/8/35 (Item 10 from file: 16)
Gale Group PROMT(R)
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07119547 **Supplier Number:** 60264232 (USE FORMAT 7 FOR FULLTEXT)

ASPSecure.com Closes \$9 Million in Funding.
March 20 , 2000
Word Count: 578
Publisher Name: Business Wire
Company Names: *InterTrust Technologies Corp.
Product Names: *7372000 (Computer Software)
Industry Names: BUS (Business, General); BUSN (Any type of business)
SIC Codes: 7372 (Prepackaged software)
NAICS Codes: 51121 (Software Publishers)
Special Features: LOB; COMPANY

25/8/36 (Item 11 from file: 16)
Gale Group PROMT(R)
(c) 2007 The Gale Group. All rights reserved.
06914110 **Supplier Number:** 58486474 (USE FORMAT 7 FOR FULLTEXT)

(2) New Firm ASPSecure.com to Enable Secure e-Commerce Applications; First Company to Protect and Track Digital Content for ASP Market.
Dec 7 , 1999
Word Count: 495
Publisher Name: PR Newswire Association, Inc.
Company Names: *InterTrust Technologies Corp.
Geographic Names: *1USA (United States)
Product Names: *7372000 (Computer Software)
Industry Names: BUS (Business, General); BUSN (Any type of business)
SIC Codes: 7372 (Prepackaged software)
NAICS Codes: 51121 (Software Publishers)
Special Features: LOB; COMPANY

25/8/37 (Item 12 from file: 16)
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06852078 **Supplier Number: 58047818 (USE FORMAT 7 FOR FULLTEXT)**

New Firm ASPSecure.com to Enable Secure e-Commerce Applications; First Company to Protect and Track Digital Content for ASP Market.

Dec 7 , 1999

Word Count: 493

Publisher Name: PR Newswire Association, Inc.

Company Names: *InterTrust Technologies Corp.

Geographic Names: *1USA (United States)

Product Names: *7372000 (Computer Software)

Industry Names: BUS (Business, General); BUSN (Any type of business)

SIC Codes: 7372 (Prepackaged software)

NAICS Codes: 51121 (Software Publishers)

Special Features: LOB; COMPANY

25/8/38 (Item 13 from file: 16)

Gale Group PROMT(R)

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04158675 **Supplier Number: 46072849 (USE FORMAT 7 FOR FULLTEXT)**

ROBERT WEBER NAMED EPR(TM) SENIOR VICE PRESIDENT

Jan 17 , 1996

Word Count: 694

Publisher Name: PR Newswire Association, Inc.

Company Names: *Electronic Publishing Resource

Event Names: *540 (Executive changes & profiles)

Geographic Names: *1USA (United States)

Product Names: *7372000 (Computer Software)

Industry Names: BUS (Business, General); BUSN (Any type of business)

NAICS Codes: 51121 (Software Publishers)

Special Features: LOB; COMPANY

25/8/39 (Item 1 from file: 148)

Gale Group Trade & Industry DB

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0019076044 **Supplier Number: 140434783 (USE FORMAT 7 OR 9 FOR FULL TEXT)**

Starz Entertainment Group Ignites Portable Internet Video Market With the Launch of Vongo(SM).

Jan 3 , 2006

Word Count: 2031 **Line Count:** 00173

Company Names: Microsoft Corp.; Sony Corp.

Industry Codes/Names: BUSN Business; BUS Business, general

Descriptors: Computer software industry; Consumer electronics industry

Geographic Codes: 1USA United States; 9JAPA Japan

Product/Industry Names: 7372 Prepackaged software; 3651 Household audio and video equipment

Ticker Symbols: MSFT; SNE
File Segment: NW File 649

25/8/40 (Item 2 from file: 148)
Gale Group Trade & Industry DB
(c)2007 The Gale Group. All rights reserved.
0017549702 **Supplier Number:** 123644129 (USE FORMAT 7 OR 9 FOR FULL TEXT)
PR Newswire Summary of High Tech Copy, Oct. 26, 2004.

Oct 26 , 2004
Word Count: 3075 **Line Count:** 00790
Industry Codes/Names: BUSN Business; BUS Business, general
File Segment: NW File 649

25/8/41 (Item 3 from file: 148)
Gale Group Trade & Industry DB
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16401086 **Supplier Number:** 109662347 (USE FORMAT 7 OR 9 FOR FULL TEXT)
PR Newswire National Summary, Tuesday, Nov. 4, Midnight to 10 a.m. ET.

Nov 4 , 2003
Word Count: 3305 **Line Count:** 00847
Industry Codes/Names: BUS Business, General; BUSN Any type of business
File Segment: NW File 649

25/8/42 (Item 4 from file: 148)
Gale Group Trade & Industry DB
(c)2007 The Gale Group. All rights reserved.
13731597 **Supplier Number:** 77248364 (USE FORMAT 7 OR 9 FOR FULL TEXT)
CMJ Announces Featured Speakers and Panel Lineup for CMJ Music Marathon 2001.

August 16 , 2001
Word Count: 786 **Line Count:** 00068
Industry Codes/Names: BUS Business, General; BUSN Any type of business
File Segment: NW File 649

25/8/43 (Item 5 from file: 148)
Gale Group Trade & Industry DB
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13428249 **Supplier Number:** 74523740 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Working the Floor.(exhibitors at the 2001 BookExpo America)

May 7 , 2001

Word Count: 75205 **Line Count:** 06564

Industry Codes/Names: BUSN Any type of business; PUBL Publishing

Descriptors: Book publishing--Conferences, meetings, seminars, etc. ; BookExpo America--2001

Geographic Codes: 1USA United States

Product/Industry Names: 2731000 (Book Publishing)

Product/Industry Names: 2731 Book publishing

NAICS Codes: 51113 Book Publishers

File Segment: MI File 47

25/8/44 (Item 6 from file: 148)

Gale Group Trade & Industry DB

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12977678 **Supplier Number:** 69272293 (USE FORMAT 7 OR 9 FOR FULL TEXT)

TrustData Solutions Appoints Abraham Sofaer and Nina Burns to Industry Advisory Board.

Jan 18 , 2001

Word Count: 868 **Line Count:** 00078

Industry Codes/Names: BUS Business, General; BUSN Any type of business

File Segment: NW File 649

25/8/45 (Item 7 from file: 148)

Gale Group Trade & Industry DB

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12957752 **Supplier Number:** 68949937 (USE FORMAT 7 OR 9 FOR FULL TEXT)

RightsShare(TM) P2P Software Capabilities Enable Content Creators To Protect, Publish and Share Digital Assets.

Jan 10 , 2001

Word Count: 1458 **Line Count:** 00134

Company Names: InterTrust Technologies Corp.

Industry Codes/Names: BUS Business, General; BUSN Any type of business

Descriptors: Computer network equipment industry; Computer software industry

Product/Industry Names: 3661257 (LAN/WAN Adapters); 7372000 (Computer Software)

Product/Industry Names: 3661 Telephone and telegraph apparatus; 7372 Prepackaged software

NAICS Codes: 33421 Telephone Apparatus Manufacturing; 51121 Software Publishers

File Segment: NW File 649

25/8/46 (Item 8 from file: 148)

Gale Group Trade & Industry DB

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11921739 **Supplier Number:** 61301809 (USE FORMAT 7 OR 9 FOR FULL TEXT)
ASPSecure.com Closes \$9 Million in Funding.

April 5 , 2000

Word Count: 606 **Line Count:** 00058

Company Names: InterTrust Technologies Corp.

Industry Codes/Names: BUS Business, General; BUSN Any type of business

Descriptors: Computer software industry

Product/Industry Names: 7372000 (Computer Software)

Product/Industry Names: 7372 Prepackaged software

NAICS Codes: 51121 Software Publishers

File Segment: NW File 649

25/8/47 (Item 9 from file: 148)

Gale Group Trade & Industry DB

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11862151 **Supplier Number:** 60264232 (USE FORMAT 7 OR 9 FOR FULL TEXT)

ASPSecure.com Closes \$9 Million in Funding.

March 20 , 2000

Word Count: 606 **Line Count:** 00058

Company Names: InterTrust Technologies Corp.

Industry Codes/Names: BUS Business, General; BUSN Any type of business

Descriptors: Computer software industry

Product/Industry Names: 7372000 (Computer Software)

Product/Industry Names: 7372 Prepackaged software

NAICS Codes: 51121 Software Publishers

File Segment: NW File 649

25/8/48 (Item 10 from file: 148)

Gale Group Trade & Industry DB

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11641453 **Supplier Number:** 58486474 (USE FORMAT 7 OR 9 FOR FULL TEXT)

(2) New Firm ASPSecure.com to Enable Secure e-Commerce Applications; First Company to Protect and Track Digital Content for ASP Market.

Dec 7 , 1999

Word Count: 520 **Line Count:** 00051

Company Names: InterTrust Technologies Corp.

Industry Codes/Names: BUS Business, General; BUSN Any type of business

Descriptors: Computer software industry

Geographic Codes: 1USA United States

Product/Industry Names: 7372000 (Computer Software)

Product/Industry Names: 7372 Prepackaged software

NAICS Codes: 51121 Software Publishers

File Segment: NW File 649

25/8/49 (Item 11 from file: 148)

Gale Group Trade & Industry DB

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11554290 **Supplier Number: 58047818 (USE FORMAT 7 OR 9 FOR FULL TEXT)**

New Firm ASPSecure.com to Enable Secure e-Commerce Applications; First Company to Protect and Track Digital Content for ASP Market.

Dec 7 , 1999

Word Count: 514 Line Count: 00050

Company Names: InterTrust Technologies Corp.

Industry Codes/Names: BUS Business, General; BUSN Any type of business

Descriptors: Computer software industry

Geographic Codes: 1USA United States

Product/Industry Names: 7372000 (Computer Software)

Product/Industry Names: 7372 Prepackaged software

NAICS Codes: 51121 Software Publishers

File Segment: NW File 649

25/8/50 (Item 12 from file: 148)

Gale Group Trade & Industry DB

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08390695 **Supplier Number: 17806363 (USE FORMAT 7 OR 9 FOR FULL TEXT)**

ROBERT WEBER NAMED EPR(TM) SENIOR VICE PRESIDENT

Jan 17 , 1996

Word Count: 652 Line Count: 00067

Company Names: Electronic Publishing Resources Inc.--Officials and employees

Industry Codes/Names: BUS Business, General

Descriptors: Electronic publishing--Officials and employees

Product/Industry Names: 4811526 (Electronic Publishing)

Product/Industry Names: 4822 Telegraph & other communications

File Segment: NW File 649

25/8/51 (Item 1 from file: 20)

Dialog Global Reporter

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46388837 **(USE FORMAT 7 OR 9 FOR FULLTEXT)**

Starz Entertainment Group Ignites Portable Internet Video Market With the Launch of Vongo(SM)

January 03, 2006

Word Count: 1887

Descriptors: Company News; Marketing; New Products & Services

SIC Codes/Descriptions: 7375 (Information Retrieval Services); 8230 (Libraries); 7812 (Motion Picture & Video Tape Production); 3570 (Computer & Office Equipment); 7370 (Computer & Data Processing Services); 7810 (Motion Picture Production & Services); 2711 (Newspapers); 7372 (Prepackaged Software)

Naics Codes/Descriptions: 334 (Computer & Electronic Product Mfg); 51 (Information); 514 (Information & Data Processing Services); 5141 (Information Services); 512 (Motion Picture & Sound Recording Industries); 5121 (Motion Picture & Video Industries); 51211 (Motion Picture & Video Production); 514191 (On-Line Information Services); 51419 (Other Information Services)

25/8/52 (Item 2 from file: 20)

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40914854 (USE FORMAT 7 OR 9 FOR FULLTEXT)

PTC Affirms Zero Tolerance Anti-Piracy Stance

February 28, 2005

Word Count: 494

Company Names: Parametric Technology Corp

Descriptors: Company News; Patents Licensing & Standards

SIC Codes/Descriptions: 7372 (Prepackaged Software); 8611 (Business Associations); 2711 (Newspapers); 8600 (Membership Organizations); 8399 (Social Services NEC); 7300 (Business Services)

Naics Codes/Descriptions: 81391 (Business Associations); 8139 (Business Labor Political & Like Organizations); 51 (Information); 81 (Other Services exc Public Admin); 511 (Publishing Industries); 813 (Religious Grantmaking Professional & Like Organizations); 51121 (Software Publishers)

25/8/53 (Item 3 from file: 20)

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38346659 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Microsoft and Partners Announce New Era of Digital Devices Enabling Consumers to Take Entertainment Throughout the Home and On the Go

October 12, 2004

Word Count: 3121

Company Names: Microsoft Corp

Descriptors: Company News; Marketing; New Products & Services

Country Names/Codes: United States of America (US)

Regions: Americas; North America

Province/State: California

SIC Codes/Descriptions: 7372 (Prepackaged Software); 2711 (Newspapers)

Naics Codes/Descriptions: 51 (Information); 511 (Publishing Industries); 51121 (Software Publishers)

>>>W: "FREE" is not a valid format name in file(s): 347-349

25/8/54 (Item 4 from file: 20)

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18370161 (USE FORMAT 7 OR 9 FOR FULLTEXT)

CMJ Announces Featured Speakers and Panel Lineup for CMJ Music Marathon 2001

August 16, 2001

Word Count: 755

Country Names/Codes: United States of America (US)

Regions: Americas; North America; Pacific Rim

25/8/55 (Item 5 from file: 20)

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15361618 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Reciprocal Adds e-Publishing Leader RosettaBooks to Client Roster; RosettaBooks Launch Enabled by Reciprocal

February 27, 2001

Word Count: 768

Company Names: Amazon.com Inc; Barnes & Noble.com Inc

Descriptors: Joint Ventures; Strategy; Company News; New Products & Services; Marketing

Country Names/Codes: United States of America (US)

Regions: Americas; North America; Pacific Rim

SIC Codes/Descriptions: 5942 (Book Stores)

Naics Codes/Descriptions: 451211 (Book Stores)

25/8/56 (Item 6 from file: 20)

Dialog Global Reporter

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14711445 (USE FORMAT 7 OR 9 FOR FULLTEXT)

TrustData Solutions Appoints Abraham Sofaer and Nina Burns to Industry Advisory Board

January 18, 2001

Word Count: 821

Descriptors: Company News

Country Names/Codes: United States of America (US)

Regions: Americas; North America; Pacific Rim

Province/State: California

25/8/57 (Item 7 from file: 20)

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14587707 (USE FORMAT 7 OR 9 FOR FULLTEXT)

RightsShare(TM) P2P Software Capabilities Enable Content Creators To Protect, Publish and Share Digital Assets

January 10, 2001

Word Count: 1369

SIC Codes/Descriptions: 7372 (Prepackaged Software)

Naics Codes/Descriptions: 51121 (Software Publishers)

25/8/58 (Item 8 from file: 20)

Dialog Global Reporter

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10431132 (USE FORMAT 7 OR 9 FOR FULLTEXT)

ASPSecure.com Closes \$9 Million in Funding

April 05, 2000

Word Count: 575

Country Names/Codes: United States of America (US)

Regions: Americas; North America; Pacific Rim

Province/State: California

SIC Codes/Descriptions: 6210 (Security Brokers & Dealers)

Naics Codes/Descriptions: 52391 (Miscellaneous Intermediation)

25/8/59 (Item 9 from file: 20)

Dialog Global Reporter

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10150321 (USE FORMAT 7 OR 9 FOR FULLTEXT)

ASPSecure.com Closes \$9 Million in Funding

March 20, 2000

Word Count: 575

Country Names/Codes: United States of America (US)

Regions: Americas; North America; Pacific Rim

Province/State: California

SIC Codes/Descriptions: 6210 (Security Brokers & Dealers)

Naics Codes/Descriptions: 52391 (Miscellaneous Intermediation)

25/8/60 (Item 10 from file: 20)

Dialog Global Reporter

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08593971 (USE FORMAT 7 OR 9 FOR FULLTEXT)

New Firm ASPSecure.com to Enable Secure e-Commerce Applications; First Company to Protect and Track Digital Content for ASP Market

December 07, 1999

Word Count: 491

Company Names: Cato Corp; International Business Machines Corp; InterTrust Technologies Inc

Descriptors: Company Management; Company News; Human Resources & Employment; Patents Licensing & Standards; Joint Ventures; Strategy

Country Names/Codes: United States of America (US)

Regions: Americas; North America; Pacific Rim

Province/State: California

SIC Codes/Descriptions: 3571 (Electronic Computers); 7372 (Prepackaged Software); 7375 (Information Retrieval Services); 5961 (Catalog & Mail Order Houses)

Naics Codes/Descriptions: 334111 (Electronic Computer Mfg); 51121 (Software Publishers); 514191 (On-Line Information Services); 45411 (Electronic Shopping & Mail-Order Houses)

25/8/77 (Item 1 from file: 47)

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07657973 **Supplier Number:** 167933371 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Chapter 7: open systems, formats, and standards.(Open-Source Software for Libraries)(Company overview)

May-June , 2007

Word Count: 4531 **Line Count:** 00422

Company Names: Microsoft Corp.

Descriptors: Computer software industry--Standards; Internet

Named Persons: Clinton, DeWitt

Event Codes/Names: 350 Product standards, safety, & recalls

SIC Codes: 7372 Prepackaged software

Ticker Symbols: MSFT

File Segment: MI File 47

25/8/78 (Item 2 from file: 47)

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07210801 **Supplier Number:** 138863523 (USE FORMAT 7 OR 9 FOR FULL TEXT)

2005 program tracks.

May , 2005

Word Count: 24731 **Line Count:** 02566

File Segment: MI File 47

25/8/79 (Item 3 from file: 47)

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06074591 **Supplier Number:** 74523740 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Working the Floor.(exhibitors at the 2001 BookExpo America)

May 7 , 2001

Word Count: 75205 **Line Count:** 06564

Descriptors: Book publishing--Conferences, meetings, seminars, etc. ; BookExpo America--2001

Geographic Codes: 1USA United States

Product/Industry Names: 2731000 (Book Publishing)

SIC Codes: 2731 Book publishing

NAICS Codes: 51113 Book Publishers

File Segment: MI File 47

>>>W: "FREE" is not a valid format name in file(s): 347-349

25/8/77 (Item 1 from file: 47)

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File Segment: MI File 47

25/8/78 (Item 2 from file: 47)

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May , 2005

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25/8/77 (Item 1 from file: 47)

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File Segment: MI File 47

25/8/78 (Item 2 from file: 47)

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2005 program tracks.

May , 2005

Word Count: 24731 **Line Count:** 02566

File Segment: MI File 47

25/8/79 (Item 3 from file: 47)

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NAICS Codes: 51113 Book Publishers

File Segment: MI File 47

>>>W: "FREE" is not a valid format name in file(s): 347-349

25/8/77 (Item 1 from file: 47)

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Ticker Symbols: MSFT

File Segment: MI File 47

25/8/78 (Item 2 from file: 47)

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07210801 **Supplier Number:** 138863523 (USE FORMAT 7 OR 9 FOR FULL TEXT)

2005 program tracks.

May , 2005

Word Count: 24731 **Line Count:** 02566

File Segment: MI File 47

25/8/79 (Item 3 from file: 47)

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Working the Floor.(exhibitors at the 2001 BookExpo America)

May 7 , 2001

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Geographic Codes: 1USA United States

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SIC Codes: 2731 Book publishing

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File Segment: MI File 47

>>>W: "FREE" is not a valid format name in file(s): 347-349

25/8/77 (Item 1 from file: 47)

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25/8/78 (Item 2 from file: 47)

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07210801 **Supplier Number:** 138863523 (USE FORMAT 7 OR 9 FOR FULL TEXT)

2005 program tracks.

May , 2005

Word Count: 24731 **Line Count:** 02566

File Segment: MI File 47

25/8/79 (Item 3 from file: 47)

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May 7 , 2001

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>>>W: "FREE" is not a valid format name in file(s): 347-349

25/8/77 (Item 1 from file: 47)

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May-June , 2007

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File Segment: MI File 47

25/8/78 (Item 2 from file: 47)

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07210801 **Supplier Number:** 138863523 (USE FORMAT 7 OR 9 FOR FULL TEXT)

2005 program tracks.

May , 2005

Word Count: 24731 **Line Count:** 02566

File Segment: MI File 47

25/8/79 (Item 3 from file: 47)

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May 7 , 2001

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File Segment: MI File 47

>>>W: "FREE" is not a valid format name in file(s): 347--349

25/8/79 (Item 3 from file: 47)

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06074591 **Supplier Number:** 74523740 (USE FORMAT 7 OR 9 FOR FULL TEXT)

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May 7 , 2001

Word Count: 75205 **Line Count:** 06564

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Geographic Codes: 1USA United States

Product/Industry Names: 2731000 (Book Publishing)

SIC Codes: 2731 Book publishing

NAICS Codes: 51113 Book Publishers

File Segment: MI File 47

? t s25/k/60

25/K/60 (Item 10 from file: 20)

Dialog Global Reporter

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(USE FORMAT 7 OR 9 FOR FULLTEXT)

...of Application Service Providers (ASP). Through its e-commerce software and service offerings based on **digital rights management** (DRM) technology developed by InterTrust Technologies Corporation, the company will provide comprehensive DRM applications for...

...e-commerce applications. (See news release dated 12/7/99 -- InterTrust and ASPSecure.com Announce **Digital Rights Management** License Agreement.)

Industry notable, Larry McArthur, the former president of MSC Software

founded ASPSecure.com...

...when transactions are executed, thus helping to optimize application performance without sacrificing security," said Dr. **Robert Weber**, President of The Pescadero Group LLC, a Menlo Park digital commerce strategy consulting firm. "Using...

...the rapidly growing Application Service Providers (ASP) market. ASPSecure.com products, based on InterTrust's **digital rights management** (DRM) technology, enable ASPs, their content providers, suppliers, and customers to persistently secure digital commerce...

? ts25/7/20

25/7/20 (Item 1 from file: 613)

PR Newswire

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0001904708 I8874D2407C5611DABA5BB35F77C05934 (THIS IS THE FULLTEXT)

**Starz Entertainment Group Ignites Portable Internet Video Market With the Launch of Vongo(SM)
Innovative Content Application Will Drive New Era in Portable Video**

PR Newswire

Tuesday, January 3, 2006 T12:30:00Z

Text:

ENGLEWOOD, Colo., Jan. 3 /PRNewswire/

- Starz Entertainment Group LLC (SEG) today announced the premiere of VONGO -- a new video download application and service for broadband that delivers movies and other video content over the Internet for playback on Windows-based PCs, laptops, and select portable media devices, as well as on a TV.

(Photo:

<http://www.newscom.com/cgi-bin/prnh/20060103/LATU022-a>

<http://www.newscom.com/cgi-bin/prnh/20060103/LATU022-a>

<http://www.newscom.com/cgi-bin/prnh/20060103/LATU022-b>

[http://www.newscom.com/cgi-bin/prnh/20060103/LATU022LOGO-c \)](http://www.newscom.com/cgi-bin/prnh/20060103/LATU022LOGO-c)

"Vongo will provide the key content application that will drive a new era in portable video delivered over the Internet," said **Robert B. Clasen**, president and CEO of SEG. "By combining the wide array of programming choices on Vongo with a host of new portable media devices

being announced this week at the Consumer Electronics Show, consumers will be able to seize control of their video and watch whatever, wherever and whenever they want."

Vongo subscribers will have unlimited access to more than 1,000 movies and video selections, as well as a live, streaming Starz TV channel, for a monthly cost of

\$9.99

. Members may download movie and video selections to three eligible devices of their choice per account, allowing for multiple viewing options and family enjoyment. Additionally, select popular pay-per-view titles are available for

\$3.99

per movie. Vongo is currently available for broadband subscribers in the United States at

<http://www.vongo.com> www.vongo.com.

Starz also announced the first in a series of planned agreements that will extend Vongo's reach as the premier broadband entertainment service for consumers. Initial partners include Sony CONNECT and Microsoft. Sony CONNECT will make Vongo a cornerstone of its new CONNECT Video service, to be launched later this year. SEG worked with Microsoft to ensure that subscription video content from Vongo provides the highest-quality viewing experience on Windows-based PCs, laptops, and select portable media devices, as well as on a TV.

"Based on the evolution of the digital entertainment space, we believe that Vongo will be the critical component in a new entertainment ecosystem; combining services, Vongo's advanced user interface (UI) and a new generation of devices to offer consumers a truly unique offering," said Bob Greene, senior vice president, advanced services for SEG.

Vongo Leverages Starz Exclusive Movie Rights

As one of the largest content aggregators in Hollywood, Starz has access to thousands of theatrical films including first-run hits ("Hitch," "The Aviator," "The Incredibles," "National Treasure," "Kill Bill Vol. 2," "Finding Neverland") and classics ("Pulp Fiction," "Boyz N' The Hood," "Night of the Living Dead," "Good Will Hunting," "Hoosiers," "Dances With Wolves," "Annie Hall") for Vongo upon launch from many of Hollywood's biggest studios.

Greg Maffei, CEO-elect of SEG parent company Liberty Media Corporation (NYSE: L, LMCb), added "Liberty is excited about this new service from Starz, not only because of its potential revenue stream, but because it positions us as the content leaders in this new era of portable video and personal consumer choice. This re-defines what it means to 'go to the movies,' because with Vongo, the movies go with you. The lessons learned in developing and launching Vongo can apply to other segments of our company

and to our sister enterprises both in the US and overseas."

Clasen added, "Critical to this service are the Internet distribution rights we have acquired from our studio partners. We share with them a concern about the piracy over the Internet and so have built in a robust **digital rights management** system to ensure that only those who are authorized to use this service will do so. We also believe that by providing a convenient, affordable and legal way to access the best of Hollywood we will ensure that consumers will be much less likely to try to engage in video piracy."

Starz Entertainment Group is the exclusive subscription provider of first-run, classic and favorite films from leading Hollywood studios including Walt Disney Pictures, Miramax Films, Touchstone Pictures, Hollywood Films, Sony Pictures Entertainment, Columbia Tri-Star, Screen Gems, Revolution Studios and more. Select recent films are available exclusively from Universal Pictures and New Line Cinema and library and classic titles are provided by a wide array of Hollywood studios. Clasen concluded, "Vongo subscribers have full access to the very best content from Hollywood's biggest studios. Our breadth of subscription movie content is unmatched anywhere on the Internet."

In addition to the movies available as part of the subscription service, Vongo will offer subscribers and non-subscribers alike access to pay per view movies for

\$3.99

per film. Offering PPV titles in the earlier release VOD window will broaden the range of movies offered on the service and give consumers greater selection and choice.

"Exclusive -- and virtually unlimited -- access to 800-1000 movies per month is the programming foundation of the Vongo service," said Greene. "Adding a PPV option will bring consumers even more movies and will do so sooner as a result of the earlier window from Hollywood. With concerts, extreme sports, and in time, TV series, we see an opportunity to bring additional value and enjoyment to Vongo members, but subscription movies will remain the driver of the service. Vongo will expand significantly its non-movie content in time as we listen to feedback from our members and the content community."

Additional programming available to Vongo subscribers includes full-length music concerts ("INXS: Live Baby Live," "The Hives: Live in Las Vegas," "Prince - Sign 'o' the Times," "The Who: Live in Boston," "Brian Wilson: On Tour"), and Extreme Sports ("Warren Miller's Cold Fusion," "Real Action Sports," "Ride Guide"). At launch, Vongo will offer a live, East Coast feed of the Starz TV channel in its "Watch Live Now" category, with an eye towards adding other television-based content, including series in the future.

"Movies, sports and news are the main drivers for Internet content. So far, sports and news have found an opportunity to distribute content via the

Internet, but due to the Hollywood rights issues, subscription movie content has been slower to come to market -- until now," said Greene. An important strategy in the development of Vongo is to engage in a number of strategic alliances with technology, media and device companies in order to extend the reach of Vongo as far as possible. "When we started working on this product 18 months ago, we reached out to industry leaders to engage them in the development of the service," said Greene. "By providing the critical content element, we are helping to create an entire ecosystem of products and services that will provide consumers with unmatched convenience and flexibility. These systems will be easy to use in multiple different settings."

Vongo Looks to Microsoft for Security and Portability -- Where Do You

Vongo?

Starz is using Windows Media technologies to power the Vongo service for their ability to provide subscribers with the highest-quality playback experience, whether enjoyed at home on a Windows-based PC or on the go using eligible portable media devices or laptops.

"This is a significant development in the enjoyment of Internet-delivered video content," said Greene. "We believe the ability to easily, securely and legally move Vongo content to the TV and portable devices will be key drivers for Vongo's 'video on the go' consumers -- particularly as those important segments of the marketplace develop."

"With Vongo, Starz brings a wealth of premium and exclusive television and feature film content to hundreds of millions of Windows users," said Blair Westlake, corporate vice president of the Media, Content & Partner Strategy Group. "Powering Vongo with our Windows Media technologies not only gives consumers the best-quality video, but also gives them the flexibility to enjoy their content when and where they want, at home or on the go."

"The combination of Vongo's programming and Microsoft's **digital rights management** system and media player software has produced the catalyst for this new era of personal video," said John Pollard, senior director in the Mobile & Embedded Devices Division at Microsoft. "With this new service consumers have greater freedom to choose what they want to watch from anywhere at anytime."

Sony CONNECT with Vongo for Distribution

"We are very pleased to be working with Sony CONNECT," said Greene. "Our visions about video delivery over broadband are very much aligned, and we are excited about the marketing opportunities that Sony CONNECT will bring to the table."

In addition, Starz has partnered with a host of other providers in the development of Vongo. "We have built Vongo from scratch in partnership with 'best of breed' vendors and partners," Greene noted. "With Sony CONNECT,

Microsoft, and other key alliances to be announced soon, we present the first examples of the broadband-delivered video ecosystem we have built around Vongo to catalyze the development of this marketplace."

Complements and Expands Core Business

Greene concluded that research conducted by SEG over the past year demonstrates that an Internet service will not cannibalize existing distribution systems including cable, satellite, and telco services. "Vongo expands the pie, as approximately 70% of Starz Ticket customers were not subscribers to Starz and approximately 50% were non-premium subscribers altogether. We developed Vongo so that we could provide our existing affiliates the ability to offer great movies directly to their broadband customers. We will work with them to find ways to offer Vongo, including packaging high-speed broadband connections with Vongo to attract even more consumers to this new way of accessing and enjoying content."

He also noted that Starz Ticket, launched in 2004 with RealNetworks Inc., will continue as a service, but that the focus for Starz will be on Vongo. "Starz Ticket on Real Movies provided us with a great chance to see how the market would react to broadband delivery of video. We learned an enormous amount in a real world environment and have incorporated all those lessons into the new Vongo service."

Vongo is available in the United States in beta form beginning today at

<http://www.vongo.com> www.vongo.com. The product will be showcased for interested media at CES in partner booths as well as at the Digital Media Experience at the Bellagio hotel on Jan. 4th from 7 - 10 p.m.

Starz Entertainment Group LLC (SEG) is the largest provider of premium movie services in the United States. SEG offers 13 digital movie channels including the flagship Starz(R) and Encore(R) channels with approximately 14 million and 25 million subscribers respectively. Starz Entertainment Group airs more than 750 movies per month across its pay TV channels and is a forerunner in offering its subscribers advanced services such as Starz HDTV, Starz On Demand(R) and Vongo(SM). Starz Entertainment Group is a wholly-owned subsidiary of Liberty Media Corporation (NYSE: L, LMCb),

<http://www.starz.com> www.starz.com.

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? d s

Set	Items	Description
S1	70643070	S PD<19991217
S2	1786	S (COMBINE OR COMBINING OR COMBINED OR COMBINES) (5N) ((DIGITAL OR ELECTRONIC OR DERIVATIVE OR COMPOSITE) (2W) (CONTENT OR WORK? ?))
S3	86	S (COMPOSITE OR COMPOSITES) (5N) ((DIGITAL OR ELECTRONIC OR DERIVATIVE) (2W) (CONTENT OR WORK? ?))
S4	15	S S1 AND S3
S5	14	RD (unique items)
S6	18512683	S (RIGHTS(W)MANAGEMENT) OR ((DIGITAL OR USE OR USAGE) (3N) (PERMISSION OR PERMISSIONS OR RIGHT OR RIGHTS)) OR DRM OR LICENSE OR LICENSED OR LICENSES OR LICENSING OR (INTELLECTUAL(W) (PROPERTY OR PROPERTIES)) OR COPYRIGHT OR COPYRIGHTS
S7	6	S S1 AND S3 AND S6

S8 6 RD S7 (unique items)

S9 79 S S1 AND S2 AND S6

S10 40 RD (unique items)

S11 20713 S (COMBINE OR COMBINING OR COMBINES OR COMBINED OR COMPOSITE) (5N) (((DIGITAL OR USE OR USAGE) (3N) (PERMISSION OR PERMISSIONS OR RIGHT OR RIGHTS)) OR LICENSE OR LICENSED OR LICENSES OR LICENSING)

S12 6467 S S1 AND S11

S13 5 S S12 AND S3

S14 884 S (COMBINE OR COMBINING OR COMBINES OR COMBINED OR COMPOSITE) (5N) ((DIGITAL OR USE OR USAGE) (3N) (PERMISSION OR PERMISSIONS OR RIGHT OR RIGHTS))

S15 243 S S14 AND S1

S16 69098 S MAXIMUM(3N) (TRANSFER OR TRANSFERS OR USE OR USAGE OR ACCESS)

S17 9 S S15 AND S16

S18 9 RD (unique items)

S19 3883 S DIGITAL(W) RIGHTS(W) MANAGEMENT(W) TECHNOLOGY

S20 310 S S1 AND S19

S21 0 S S20 AND WEBER

S22 13 S S15 AND S19

S23 52049 S (DIGITAL(W) RIGHTS(W) MANAGEMENT)

S24 572 S S23 AND WEBER

S25 79 S S24 AND ROBERT

? Logoff Hold

Estimated Cost Summary

Project		Client		Charge Code		Searcher		Job		Service Code	User Number
						Rob Pond				51	264751
Date		Time		SessionID		Subsession		Subaccount			
09/27/2007		18:03:04		84		3					
Data Base	Dial Units	Access Charge	Print Credit	Types	Prints	Report	Rank	Links	CSS	Total	
15	3.0360	16.39	0.00	0.26	0.00	0.00	0.00	0.00	0.00	16.65	
9	2.1570	11.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.65	
610	1.7260	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.73	
810	1.0510	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	
275	1.6600	8.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.97	
476	1.1640	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	

757	0.7990	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80
47	2.8120	15.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.18
Sub Totals	97.6040	\$378.09	\$0.00	\$6.82	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$384.91
Session Totals	97.9860	\$378.33		Telecom	\$39.09					\$424.24

Holding session beginning: 9/27/07 7:03:08 PM

Just enter a command to reestablish your session

? d s

Set Items Description

S1 70643070 S PD<19991217

S2 1786 S (COMBINE OR COMBINING OR COMBINED OR COMBINES) (5N) ((DIGITAL OR ELECTRONIC OR DERIVATIVE OR COMPOSITE) (2W) (CONTENT OR WORK? ?))

S3 86 S (COMPOSITE OR COMPOSITES) (5N) ((DIGITAL OR ELECTRONIC OR DERIVATIVE) (2W) (CONTENT OR WORK? ?))

S4 15 S S1 AND S3

S5 14 RD (unique items)

S6 18512683 S (RIGHTS(W)MANAGEMENT) OR ((DIGITAL OR USE OR USAGE) (3N) (PERMISSION OR PERMISSIONS OR RIGHT OR RIGHTS)) OR DRM OR LICENSE OR LICENSED OR LICENSES OR LICENSING OR (INTELLECTUAL(W) (PROPERTY OR PROPERTIES)) OR COPYRIGHT OR COPYRIGHTS

S7 6 S S1 AND S3 AND S6

S8 6 RD S7 (unique items)

S9 79 S S1 AND S2 AND S6

S10 40 RD (unique items)

S11 20713 S (COMBINE OR COMBINING OR COMBINES OR COMBINED OR COMPOSITE) (5N) (((DIGITAL OR USE OR USAGE) (3N) (PERMISSION OR PERMISSIONS OR RIGHT OR RIGHTS)) OR LICENSE OR LICENSED OR LICENSES OR LICENSING)

S12 6467 S S1 AND S11

S13 5 S S12 AND S3

S14 884 S (COMBINE OR COMBINING OR COMBINES OR COMBINED OR COMPOSITE) (5N) ((DIGITAL OR USE OR USAGE) (3N) (PERMISSION OR PERMISSIONS OR RIGHT OR RIGHTS))

S15 243 S S14 AND S1

S16 69098 S MAXIMUM(3N) (TRANSFER OR TRANSFERS OR USE OR USAGE OR ACCESS)

S17 9 S S15 AND S16

S18 9 RD (unique items)

S19	3883	S DIGITAL (W) RIGHTS (W) MANAGEMENT (W) TECHNOLOGY
S20	310	S S1 AND S19
S21	0	S S20 AND WEBER
S22	13	S S15 AND S19
S23	52049	S (DIGITAL (W) RIGHTS (W) MANAGEMENT)
S24	572	S S23 AND WEBER
S25	79	S S24 AND ROBERT

? s secure (w) digital (w) music (w) initiative

Processing

Processing

	3716554	SECURE
	6179197	DIGITAL
	4751463	MUSIC
	2665385	INITIATIVE
S26	4960	S SECURE (W) DIGITAL (W) MUSIC (W) INITIATIVE

? s s1 and s26

Processing

	70643070	S1
	4960	S26
S27	2646	S S1 AND S26

? s s27 and (check-out or checked-out or (check?? (w) out))

Processing

Processing

Processing

Processing

Processing

	2646	S27
	6	CHECK-OUT
	0	CHECKED-OUT
	5241485	CHECK??
	43515422	OUT

601791 CHECK??(W)OUT

S28 78 S S27 AND (CHECK-OUT OR CHECKED-OUT OR (CHECK??(W)OUT))

? rd

>>>W: Duplicate detection is not supported for File 348.

Duplicate detection is not supported for File 349.

Duplicate detection is not supported for File 347.

Records from unsupported files will be retained in the RD set.

S29 34 RD (UNIQUE ITEMS)

? r s29/free/all

>>>E: Unrecognizable command

? t s29/free/all

>>>W: "FREE" is not a valid format name in file(s): 347-349

29/8/1 (Item 1 from file: 15)

Fulltext available through: [ScienceDirect](#)

ABI/Inform(R)

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01958389 46834779

****USE FORMAT 7 OR 9 FOR FULL TEXT****

Safety in numbers

Word Count: 2692 **Length:** 7 Pages

Nov 1999

Geographic Names: United States; US

Descriptors: Standards; Audio recordings; Technological change; Digital transmission; Intellectual property; Computer architecture; Application programming interface

Classification Codes: 8307 (CN=Entertainment industry); 5240 (CN=Software & systems); 4300 (CN=Law); 9190 (CN=United States)

Print Media ID: 14010

29/8/2 (Item 2 from file: 15)

Fulltext available through: [ScienceDirect](#)

ABI/Inform(R)

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01799732 04-50723

****USE FORMAT 7 OR 9 FOR FULL TEXT****

The RIAA and MP3: In search of a clue

Word Count: 933 **Length:** 1 Pages

Apr 1999

Company Names:

Recording Industry Association of America

Geographic Names: US

Descriptors: Internet; Recording industry; Associations; Standards; Copyright

Classification Codes: 5250 (CN=Telecommunications systems); 8307 (CN=Entertainment industry); 9190 (CN=United States); 9540 (CN=Nonprofit institutions)

29/8/3 (Item 1 from file: 9)

Business & Industry(R)

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01961233 Supplier Number: 25441773 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Walkman grabs a stick . . .

September 27, 1999

Word Count: 416

Company Names: SONY CORP

Industry Names: Consumer electronics

Product Names: Consumer high-fidelity components (365136)

Concept Terms: All company; All product and service information; E-Commerce; Product introduction

Geographic Names: Japan (JPN); Pacific Rim (PARX); Southern & Eastern Asia (SSAX)

29/8/4 (Item 1 from file: 610)

Business Wire

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00028311 1999102B1560 (USE FORMAT 7 FOR FULLTEXT)

New a2b music Player 2.0 Hits a High Note With 25% Faster Downloads

Monday , April 12, 1999 17:58 EDT

Word Count: 1,152

Company Names: at&t

29/8/5 (Item 2 from file: 610)

Business Wire

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00011306 1999061B1635 (USE FORMAT 7 FOR FULLTEXT)

a2b music to Offer Post-Grammy a2b MAIL Promotion for Award Winner Lucinda Williams

Tuesday , March 2, 1999 19:12 EDT

Word Count: 539

Company Names: SM; N2K INC; AT AND T CORP; AMERICAN TELEPHONE AND TELEGRAPH CO; FAIRWEST DIRECT INC

Product Names: ARTS; INTERNET; MUSIC; RETAILING AND DISTRIBUTION; LEISURE;

COMMUNICATIONS TECHNOLOGIES; COMPUTERS; ENTERTAINMENT

29/8/6 (Item 1 from file: 810)

Business Wire

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0976685 BW1196 EW1196

NY A2B MUSIC WRIGHT : MCA Nashville Uses a2b music to Send a Preview of Country Singer Chely Wright's New Single via the Internet to Radio

February 09, 1999

Byline: Business/Entertainment Editors

Word Count: 660

29/8/7 (Item 1 from file: 275)

Gale Group Computer DB(TM)

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02350723 **Supplier Number:** 57517804 (Use Format 7 Or 9 For FULL TEXT)

You Say You Want a Revolution: Music on the Web.(Software Review)(Buyers Guide)

Nov , 1999

Word Count: 3763 **Line Count:** 00295

Geographic Codes/Names: 1USA United States

Descriptors: Software buyers' guide; Music software; MP3

Event Codes/Names: 330 Product information

Product/Industry Names: 7372544 (Sound/Audio Software); 7372488 (Music Software)

NAICS Codes: 51121 Software Publishers

File Segment: CD File 275

29/8/8 (Item 2 from file: 275)

Gale Group Computer DB(TM)

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02337175 **Supplier Number:** 55878804 (Use Format 7 Or 9 For FULL TEXT)

Walkman grabs a stick . . .(Sony's Memory Stick Walkman supports the Secure Digital Music Initiative)(Product Development)

Sept 27 , 1999

Word Count: 448 **Line Count:** 00038

Company Names: Sony Corp.--Product development

Geographic Codes/Names: 9JAPA Japan

Descriptors: Sound board/audio device; Hardware product development; Flash memory

Event Codes/Names: 331 Product development

Product/Industry Names: 3573293 (Computer Graphics, Sound and Video Processors)

NAICS Codes: 334119 Other Computer Peripheral Equipment Manufacturing
Trade Names: Sony Memory Stick Walkman (Sound board/audio device)--Product development
File Segment: CD File 275

29/8/9 (Item 3 from file: 275)
Gale Group Computer DB(TM)
(c) 2007 The Gale Group. All rights reserved.
02323806 **Supplier Number:** 55480979 (Use Format 7 Or 9 For FULL TEXT)
Surf, Look, & Listen.(Internet/Web/Online Service Information)

Sept 21 , 1999
Word Count: 749 **Line Count:** 00059
Geographic Codes/Names: 1USA United States
Descriptors: Internet/Web technology application; Music software; MP3
Event Codes/Names: 240 Marketing procedures
Product/Industry Names: 7372488 (Music Software)
NAICS Codes: 51121 Software Publishers
File Segment: CD File 275

29/8/10 (Item 1 from file: 621)
Gale Group New Prod.Annou.(R)
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02157093 **Supplier Number:** 55566844 (USE FORMAT 7 FOR FULLTEXT)
Amazon.com, Warner Music Group, RealNetworks, and Liquid Audio to Offer Exclusive Series of Free Downloads From 10 Top-Name Artists.

August 26 , 1999
Word Count: 1613
Publisher Name: PR Newswire Association, Inc.
Company Names: *Amazon.com Inc.; Liquid Audio Inc.; RealNetworks Inc.; Warner Music Group
Product Names: *4811524 (Teleshopping Services); 7372000 (Computer Software); 7372680 (Internet Software)
Industry Names: BUS (Business, General); BUSN (Any type of business)
SIC Codes: 4822 (Telegraph & other communications); 7372 (Prepackaged software)
NAICS Codes: 514199 (All Other Information Services); 51121 (Software Publishers)
Ticker Symbols: AMZN; RNWK

29/8/11 (Item 2 from file: 621)
Gale Group New Prod.Annou.(R)
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02155394 **Supplier Number:** 55551947 (USE FORMAT 7 FOR FULLTEXT)
New Liquid System 5.0 Lets Fans Access the Most Music Downloads From One Player; Preview Release Now Available With Multi-Format Support Including MP3.

August 25 , 1999

Word Count: 1005

Publisher Name: PR Newswire Association, Inc.

Company Names: *Liquid Audio Inc.

Geographic Names: *1USA (United States)

Product Names: *7372000 (Computer Software); 7372544 (Sound/Audio Software)

Industry Names: BUS (Business, General); BUSN (Any type of business)

SIC Codes: 7372 (Prepackaged software)

NAICS Codes: 51121 (Software Publishers)

29/8/12 (Item 3 from file: 621)

Gale Group New Prod.Annou.(R)

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02153308 **Supplier Number:** 55523234 (USE FORMAT 7 FOR FULLTEXT)

SANYO Announces First SDMI-Compliant Secure, Portable Digital Music Player Based on Liquid Audio Software and Texas Instruments Digital Signal Processors.

August 23 , 1999

Word Count: 982

Publisher Name: PR Newswire Association, Inc.

Company Names: *Liquid Audio Inc.; Sanyo Electric Company Ltd.; Texas Instruments Inc.

Product Names: *3650000 (Consumer Electronics); 3670000 (Electronic Components); 7372000 (Computer Software)

Industry Names: BUS (Business, General); BUSN (Any type of business)

SIC Codes: 3651 (Household audio and video equipment); 3670 (Electronic Components and Accessories); 7372 (Prepackaged software)

NAICS Codes: 33431 (Audio and Video Equipment Manufacturing); 3359 (Other Electrical Equipment and Component Manufacturing); 51121 (Software Publishers)

Ticker Symbols: TXN

29/8/13 (Item 4 from file: 621)

Gale Group New Prod.Annou.(R)

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01909924 **Supplier Number:** 55035509 (USE FORMAT 7 FOR FULLTEXT)

Rock.com, Iomega and Liquid Audio Announce First Secure and Portable Digital Music Download Solution Designed to Meet SDMI Guidelines.

June 30 , 1999

Word Count: 903

Publisher Name: Business Wire

Company Names: *IOMEGA Corp.; Liquid Audio Inc.

Product Names: *3679100 (Magnetic & Optical Media); 7372000 (Computer Software)

Industry Names: BUS (Business, General); BUSN (Any type of business)

SIC Codes: 3679 (Electronic components, not elsewhere classified); 7372 (Prepackaged software)
NAICS Codes: 334613 (Magnetic and Optical Recording Media Manufacturing); 51121 (Software Publishers)
Ticker Symbols: IOM

29/8/14 (Item 1 from file: 636)
Gale Group Newsletter DB(TM)
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05050495 **Supplier Number: 76754345 (USE FORMAT 7 FOR FULLTEXT)**

SANYO announces SDMI-compliant digital music player based on Liquid Audio & TI DSPs.

August 24 , 1999

Word Count: 608

Publisher Name: M2 Communications Ltd.

Company Names: *Liquid Audio Inc.; Sanyo Electric Company Ltd.; Texas Instruments Inc.

Geographic Names: *1USA □(United States); 9JAPA □(Japan)

Product Names: *3650000 □ (Consumer Electronics); 3670000 □ (Electronic Components); 7372000 □ (Computer Software)

Industry Names: BUSN □(Any type of business); INTL □(Business, International)

SIC Codes: 3651 □(Household audio and video equipment); 3670 □(Electronic Components and Accessories); 7372 □(Prepackaged software)

NAICS Codes: 33431 □(Audio and Video Equipment Manufacturing); 3359 □(Other Electrical Equipment and Component Manufacturing); 51121 □(Software Publishers)

Ticker Symbols: TXN

29/8/15 (Item 2 from file: 636)
Gale Group Newsletter DB(TM)
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04386429 **Supplier Number: 55219335 (USE FORMAT 7 FOR FULLTEXT)**

FEW SURPRISES ON SDMI PORTABLE SPECIFICATIONS.

July 19 , 1999

Word Count: 785

Publisher Name: Warren Publishing, Inc.

Event Names: *350 (Product standards, safety, & recalls); 370 (Patents & copyrights)

Geographic Names: *1USA (United States)

Product Names: *3679141 (Optical Discs)

Industry Names: BUSN (Any type of business); ELEC (Electronics)

NAICS Codes: 334613 (Magnetic and Optical Recording Media Manufacturing)

29/8/16 (Item 3 from file: 636)
Gale Group Newsletter DB(TM)
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04144676 **Supplier Number: 54379669 (USE FORMAT 7 FOR FULLTEXT)**

A2B MUSIC: New a2b music Player 2.0 hits a high note with 25% faster downloads.

April 13 , 1999

Word Count: 1192

Publisher Name: M2 Communications

Industry Names: BUSN (Any type of business); INTL (Business, International)

29/8/17 (Item 4 from file: 636)

Gale Group Newsletter DB(TM)

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04091476 **Supplier Number:** 53867050 (USE FORMAT 7 FOR FULLTEXT)

A2B MUSIC: MCA Nashville uses a2b Music to send Chely Wright's new single via Internet to radio.

Feb 11 , 1999

Word Count: 680

Publisher Name: M2 Communications

Industry Names: BUSN (Any type of business); INTL (Business, International)

29/8/18 (Item 1 from file: 613)

PR Newswire

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00212903 19991110SFW096 (USE FORMAT 7 FOR FULLTEXT)

Microsoft Announces New Windows Media Developer Resources for Next Generation Of Digital Audio and Video Applications

Wednesday , November 10, 1999 14:31 EST

Word Count: 951

Company Names: Microsoft Corp.; VIDEO APPLICATIONS; WEBSITE MANAGEMENT CO INC; SOFTWARE DEVELOPMENT

Product Names: NEW PRODUCT DEVELOPMENT; MARKETING; CORPORATE; COMPUTER SOFTWARE; INTERNET; MEDIA INDUSTRIES; MULTIMEDIA SOFTWARE; COMPUTERS; COMMUNICATIONS TECHNOLOGIES; MULTIMEDIA

Event Names: NEW PRODUCT DEVELOPMENT; PRODUCT LAUNCHES

29/8/19 (Item 2 from file: 613)

PR Newswire

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00183373 19990927SFM056C (USE FORMAT 7 FOR FULLTEXT)

Cirrus Logic and Microsoft Collaborate to Enable Next Generation of Portable Music Devices Based on Windows Media Technologies 4

Monday , September 27, 1999 09:00 EDT

Word Count: 1,397

Company Names: Microsoft Corp.; Cirrus Logic, Inc.; CIRRUS LOGIC INC; FASTER INC; FASTER SRL; INSTAT GROUP LTD; INSTAT LTD; MEDIA TECHNOLOGIES INC; MEDIA TECHNOLOGIES LTD; ARM

HOLDINGS PLC; UPSTART COMMUNICATIONS INC

Product Names: ENTERTAINMENT; LEISURE; LICENSING; LEGAL; CONTRACTS AND ORDERS; AUDIO EQUIPMENT; COMPUTER SOFTWARE; COMPUTER STORAGE; MICROCHIPS; MICROPROCESSORS ; MUSIC; TECHNOLOGY DEVELOPMENT; CONSUMER ELECTRONICS; COMPUTERS; COMPUTER HARDWARE; ELECTRONIC COMPONENTS; ELECTRONICS INDUSTRY; SEMICONDUCTORS

Event Names: LICENSING; LEGAL; CONTRACTS AND ORDERS; TECHNOLOGY DEVELOPMENT

29/8/20 (Item 3 from file: 613)

PR Newswire

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00107204 19990512SFW027 (USE FORMAT 7 FOR FULLTEXT)

Microsoft and Sony Music Entertainment to Jointly Market and Promote Music And Music Videos on the Web

Wednesday , May 12, 1999 06:00 EDT

Word Count: 690

Company Names: Microsoft Corp.; Sony Music Entertainment; WAGGENER EDSTROM INC

Product Names: ENTERTAINMENT; LEISURE; CONTRACTS AND ORDERS; COMPUTER SOFTWARE; INTERNET; MUSIC; COMPUTERS; COMMUNICATIONS TECHNOLOGIES

Event Names: CONTRACTS AND ORDERS; JOINT VENTURES; TECHNOLOGY DEVELOPMENT

29/8/21 (Item 1 from file: 813)

PR Newswire

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1454675 SFTU101r

Microsoft Windows Media Technologies Gains Support for Downloadable Music from Top Music Sites, Independent Labels, Popular Bands and Innovative Developers

Date: April 13, 1999

Word Count: 2,218

Company Name: MICROSOFT CORP.

Ticker Symbol: MSFT (NDQ)

Product: COMPUTER, ELECTRONICS (CPR); INTERNET, MULTIMEDIA, ONLINE (MLM)

Descriptors: NEW PRODUCTS & SERVICES (PDT)

State: WASHINGTON (WA)

Section Heading: BUSINESS; TECHNOLOGY

29/8/22 (Item 2 from file: 813)

PR Newswire

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1454447

Microsoft and Reciprocal Extend Strategic Alliance to Deliver Digital Rights Management Solution Based on

Windows Media Technologies 4.0

Date: April 13, 1999

Word Count: 1,093

Ticker Symbol: MSFT (NDQ)

Section Heading: BUSINESS; TECHNOLOGY

29/8/23 (Item 1 from file: 16)

Gale Group PROMT(R)

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06760058 **Supplier Number:** 56021423 (USE FORMAT 7 FOR FULLTEXT)

Secure Memory-Card Standard Promises To Keep Digital Multimedia Under Control.

Oct 4 , 1999

Word Count: 741

Publisher Name: Penton Media, Inc.

Event Names: *331 (Product development)

Geographic Names: *1USA (United States)

Product Names: *3679142 (Optical Memory Cards)

Industry Names: BUSN (Any type of business); CMPT (Computers and Office Automation); ELEC (Electronics)

NAICS Codes: 334613 (Magnetic and Optical Recording Media Manufacturing)

29/8/24 (Item 2 from file: 16)

Gale Group PROMT(R)

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06580049 **Supplier Number:** 55521650 (USE FORMAT 7 FOR FULLTEXT)

Net Music Cos. Experience Growing Pains.(Statistical Data Included)

August 21 , 1999

Word Count: 1167

Publisher Name: BPI Communications, Inc.

Event Names: *200 (Management dynamics)

Geographic Names: *1USA (United States)

Product Names: *7929320 (Recorded Music Producers); 4811520 (Online Services)

Industry Names: ARTS (Arts and Entertainment); BUSN (Any type of business)

NAICS Codes: 51221 (Record Production); 514191 (On-Line Information Services)

Advertising Codes: 85 Industry Market Data

29/8/25 (Item 3 from file: 16)

Gale Group PROMT(R)

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06514914 **Supplier Number:** 55263085 (USE FORMAT 7 FOR FULLTEXT)

THE SECURE.

July 24 , 1999

Word Count: 291

Publisher Name: BPI Communications, Inc.

Event Names: *350 (Product standards, safety, & recalls)

Geographic Names: *1USA (United States)

Product Names: *3652001 (Consumer Audio Recordings)

Industry Names: ARTS (Arts and Entertainment); BUSN (Any type of business)

NAICS Codes: 51222 (Integrated Record Production/Distribution)

29/8/26 (Item 4 from file: 16)

Gale Group PROMT(R)

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06320922

Supplier Number: 54570021 (USE FORMAT 7 FOR FULLTEXT)

Online compilation for the age of customisation.

April , 1999

Word Count: 3583

Publisher Name: Miller Freeman UK Ltd.

Company Names: *Music Connection

Event Names: *240 (Marketing procedures)

Geographic Names: *1USA (United States)

Product Names: *5733000 (Music Stores); 4811520 (Online Services)

Industry Names: ARTS (Arts and Entertainment); BUSN (Any type of business); INTL (Business, International)

NAICS Codes: 45114 (Musical Instrument and Supplies Stores); 514191 (On-Line Information Services)

Special Features: LOB; COMPANY

29/8/27 (Item 1 from file: 148)

Gale Group Trade & Industry DB

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11363203 **Supplier Number:** 55831263 (USE FORMAT 7 OR 9 FOR FULL TEXT)

SDMI portable spec adds copy limit but remains open-ended.(Secure Digital Music Initiative's first formal specification for portable digital music players released on July 16, 1999)

August , 1999

Word Count: 558 **Line Count:** 00047

Industry Codes/Names: ARTS Arts and Entertainment; BUSN Any type of business

Descriptors: Secure Digital Music Initiative--Laws, regulations, etc.; Audio equipment--Laws, regulations, etc.; Compact discs --Laws, regulations, etc.

Product/Industry Names: 3651030 (Consumer Audio Equipment)

Product/Industry Names: 3651 Household audio and video equipment

NAICS Codes: 33431 Audio and Video Equipment Manufacturing

File Segment: TI File 148

29/8/28 (Item 1 from file: 20)

Dialog Global Reporter

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07706809 (USE FORMAT 7 OR 9 FOR FULLTEXT)

THE SOUND OF A MUSIC REVOLUTION

October 12, 1999

Word Count: 975

Company Names: Sony Corp

Descriptors: Sales; Marketing; Company News

Country Names/Codes: United Kingdom (GB)

Regions: Europe; European Union; Western Europe

SIC Codes/Descriptions: 3652 (Prerecorded Records & Tapes); 7375 (Information Retrieval Services)

29/8/29 (Item 2 from file: 20)

Dialog Global Reporter

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06876652 (USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXAS INSTRUMENTS: SANYO announces SDMI-compliant digital music player based on Liquid Audio & TI DSPs

August 24, 1999

Word Count: 528

Company Names: Sanyo Electric Co Ltd; Texas Instruments Inc

Descriptors: Facilities & Equipment; Company News

Country Names/Codes: United States of America (US)

Regions: Americas; North America; Pacific Rim

SIC Codes/Descriptions: 7375 (Information Retrieval Services); 7372 (Prepackaged Software)

29/8/30 (Item 3 from file: 20)

Dialog Global Reporter

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06414195 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Could this portable music player bring down the record industry?

July 24, 1999

Word Count: 1950

Country Names/Codes: United States of America (US)

Regions: Americas; North America; Pacific Rim

SIC Codes/Descriptions: 3652 (Prerecorded Records & Tapes)

29/8/31 (Item 4 from file: 20)
Dialog Global Reporter
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05658814 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Web Sites, Net News, Net Tools

June 15, 1999
Word Count: 1723
Descriptors: New Products & Services; Marketing; Company News
Country Names/Codes: India (IN)
Regions: Asia; South Asia
SIC Codes/Descriptions: 7372 (Prepackaged Software); 7375 (Information Retrieval Services)

29/8/32 (Item 5 from file: 20)
Dialog Global Reporter
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04151803 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Computer Currents: Microsoft Windows 2000... or will that be 2001?

January 27, 1999
Word Count: 1029

29/8/33 (Item 1 from file: 570)
Gale Group MARS(R)
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01941328 **Supplier Number:** 63785299
Spec reveals new details.

July 26 , 1999
Publisher Name: Cahnners Publishing Company
Event Names: *350 (Product standards, safety, & recalls)
Geographic Names: *1USA (United States)
Product Names: *3651533 (Digital Audio Disc Players)
Industry Names: BUSN (Any type of business); ELEC (Electronics)
Naics Codes: 33431 (Audio and Video Equipment Manufacturing)

29/8/34 (Item 1 from file: 633)
Phil.Inquirer
(c) 2007 Philadelphia Newspapers Inc. All rights reserved.
10203138

MUSIC FINDS A NICHE ON THE WEB, AND RECORD COMPANIES SWEAT

Thursday, July 22, 1999

Word Count: 1,636

Descriptors: INTERNET MUSIC BUSINESS AND INDUSTRY

? t s29/k/all

29/K/1 (Item 1 from file: 15)

ABI/Inform(R)

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Abstract:

The **Secure Digital Music Initiative** has instilled more fear in music lovers than Attila the Hun did in Roman citizens...

Text:

The **Secure Digital Music Initiative** (SDMI) has instilled more fear in music lovers than Attila the Hun did among Roman...

...FIGURE 4,

SDMI's copying model functions like a library. The usage rules let you **check out** (or copy) original content a specific number of times. Once the content is **checked out**, it becomes Portable Media that may be played on a PD.

However, PM is not...

...a copy of the PM. If you want to make an additional copy, you must **check out** an additional copy from the original content. SDMI hopes that this restriction will reduce the...

...can no longer create a new PM until you return, or check in, outstanding, or **checked out**, PIM(s). By default, the SDMI specification limits you to four check outs per original. Fortunately ...it will only slow down, not stop, professionals). Casual piracy is eliminated by the library **check-out** system, watermarking, encryption, and other security measures. An equally important goal of SDMI is to...Shakespeare's Macbeth: "Full of sound and fury signifying nothing."

THE SDMI ACARONYM HEY

SDMI: **Secure Digital Music Initiative**

IP: Intellectual Property

LCM: Licensed Compliance Modules

PM: Portable Media

PO: Portable Devices

SAC: Secure...

29/K/2 (Item 2 from file: 15)

ABI/Inform(R)

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Text:

...December 15, 1998, the RIAA hosted a press conference in New York to announce the **Secure Digital Music Initiative** (SDM). Described as "a framework" for working "with the technology community to create a voluntary...

...Online Inc. 's DVD Pro Conference & Exhibition.

Comments* Email us as letters@onlineinc.com, or **check out** the masthead for other ways to contact us.

29/K/3 (Item 1 from file: 9)

Business & Industry(R)

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(...Walkman, which it calls the first audio player to comply with the specifications of the **Secure Digital Music Initiative** (SDMI)

TEXT:

...developed what it calls the first audio player to comply with the specifications of the **Secure Digital Music Initiative** (SDMI). The company also hopes the Memory Stick Walkman will become the killer application for...

...can then be used in other Memory Stick Walkmen. But if the user wants to "**check out**" the same content to a fourth Memory Stick, one

copy must be checked in to...

29/K/4 (Item 1 from file: 610)

Business Wire

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...protection of artists' copyrights. We hope that with the streaming function even more fans will **check out** music on the Internet.

We're looking forward to doing more promotions in the future...

...available through a licensing program. AT&T and a2b music are founding members of the **Secure Digital Music Initiative**

(SDMI) Forum, which will create a voluntary digital music security specification.

Since its launch in...

29/K/5 (Item 2 from file: 610)

Business Wire

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...Car Wheels on a Gravel Road who were previously unaware of her prior albums can **check out** Lucinda Williams.

In addition, Car Wheels on a Gravel Road was the winner of The...

...available through a licensing program. AT&T and a2b music are founding members of the **Secure Digital Music Initiative**

(SDMI) Forum, which will create a voluntary digital music security specification.

Since its launch in...

29/K/6 (Item 1 from file: 810)

Business Wire

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...guy, I know that programmers and MDs don't have a lot of time to **check out** new music or play with fussy applications. a2b MAIL lets them listen to a sample...

...available through a licensing program. AT&T and a2b music are founding members of the **Secure Digital Music Initiative** (SDMI) Forum, which will create a voluntary digital music security specification.
Since its launch in...

29/K/7 (Item 1 from file: 275)
Gale Group Computer DB(TM)
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...Copy Wrong?") But the frontier-style free-for-all may not last much longer. The **Secure Digital Music Initiative**, launched in late 1998 by the Recording Industry Association of America and five major recording...on how to find the best online radio stations and how to optimize their playback, **check out** "The Web Is Alive With the Sound of Music" in Internet Tips.
Why Don't...

19991101

29/K/8 (Item 2 from file: 275)
Gale Group Computer DB(TM)
(c) 2007 The Gale Group. All rights reserved.
Walkman grabs a stick . . . (Sony's Memory Stick Walkman supports the Secure Digital Music Initiative)(Product Development)

Text:

...developed what it calls the first audio player to comply with the specifications of the **Secure Digital Music Initiative** (SDMI). The company also hopes the Memory Stick Walkman will become the killer application for...

...can then be used in other Memory Stick Walkmen. But if the user wants to **"check out"** the same content to a fourth Memory Stick, one copy must be checked in to...

19990927

29/K/9 (Item 3 from file: 275)
Gale Group Computer DB(TM)
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...So the industry has worked to develop a secure mechanism for delivering music online. The **Secure Digital Music Initiative** (SDMI), which has the broad support of the record companies and technology companies such as...

...of the future. Sample the 300-Kbps content available at sites like Broadcast.com or **check out** FastTV .com's news feeds. While clearly less than even VHS quality, the potential...

19990921

29/K/10 (Item 1 from file: 621)
Gale Group New Prod. Annou.(R)
(c) 2007 The Gale Group. All rights reserved.

...with premier sound quality and visual presentation. Liquid Player makes it easy to sample music, **check out** lyrics and liner notes, and purchase, download, and organize music. Consumers can also use the...

...this leading selection of free downloads.
These secure downloads conform to the objectives of the **Secure Digital Music Initiative** (SDMI), the multi-industry body seeking to set specifications for the secure sale of digital...

19990826

29/K/11 (Item 2 from file: 621)
Gale Group New Prod. Annou.(R)
(c) 2007 The Gale Group. All rights reserved.

...0 and Liquid(TM) Player 5.0, supports all leading digital music standards, including mp3, **Secure Digital Music Initiative** (SDMI), RealNetworks, Dolby Digital and Advanced Audio

Compression (AAC). As a result, music fans can...

...their RealPlayer G2 or RealJukebox. Liquid Player 5.0 makes it easy to sample music, **check out** lyrics and liner notes, purchase, download and organize music. An enhanced Music Organizer feature lets...

19990825

29/K/12 (Item 3 from file: 621)

Gale Group New Prod. Annou.(R)

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(USE FORMAT 7 FOR FULLTEXT)

Text:

...s programmable Digital Signal Processors (DSPs). The new portable device will meet the newly-released **Secure Digital Music Initiative** (SDMI) guidelines for portable consumer devices, and playback secure digital music files that are downloaded...

...200 online retailers. Using Liquid(TM) Player software, consumers visiting these sites can sample music, **check out** lyrics and liner notes, securely purchase and download the single right to their PC, and...

19990823

29/K/13 (Item 4 from file: 621)

Gale Group New Prod. Annou.(R)

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...and portable download solution for digital music that is designed to meet the newly-released **Secure Digital Music Initiative** (SDMI) guidelines for digital portable devices. Exclusively available on the Rock.com Web site at...

...Player software available on Rock.com, consumers can sample high-quality music on the site, **check out** album art and liner notes, and securely download singles directly to their Zip disks," said...

...of Business Development at Liquid Audio. "Liquid Audio has also been actively involved in the **Secure Digital Music Initiative** to ensure this secure digital download solution meets SDMI requirements."

"Iomega is excited to be...

19990630

29/K/14 (Item 1 from file: 636)
Gale Group Newsletter DB(TM)
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...s programmable Digital Signal Processors (DSPs). The new portable device will meet the newly-released **Secure Digital Music Initiative** (SDMI) guidelines for portable consumer devices, and playback secure digital music files that are downloaded...than 200 online retailers. Using Liquid Player software, consumers visiting these sites can sample music, **check out** lyrics and liner notes, securely purchase and download the single right to their PC, and...

19990824

29/K/15 (Item 2 from file: 636)
Gale Group Newsletter DB(TM)
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(USE FORMAT 7 FOR FULLTEXT)
Text:

...CDs onto PCs or portable devices, as they do today, under Version 1.0 of **Secure Digital Music Initiative** (SDMI) specification on portable devices, ratified July 8 and posted on SDMI Web site (www...

...which SDMI-compliant applications interface with SDMI-compliant Version 1.0 PDs," (for "portable devices"). "**Check-out**" is defined as process by which SDMI-protected content is copied via LCM, and number...

19990719

29/K/16 (Item 3 from file: 636)
Gale Group Newsletter DB(TM)
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...protection of artists' copyrights. We hope that with the streaming function even more fans will **check out** music on the Internet. We're looking forward to doing more promotions in the future AT&T and a2b music are founding members of the **Secure Digital Music Initiative** (SDMI) Forum, which will create a voluntary

digital music security specification.

Since its launch in...

19990413

29/K/17 (Item 4 from file: 636)

Gale Group Newsletter DB(TM)

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...guy, I know that programmers and MDs don't have a lot of time to **check out** new music or play with fussy applications. a2b MAIL lets them listen to a sample...

...available through a licensing program. AT&T and a2b music are founding members of the **Secure Digital Music Initiative** (SDMI) Forum, which will create a voluntary digital music security specification.

Since its launch in...

19990211

29/K/18 (Item 1 from file: 613)

PR Newswire

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...the first cost-effective, standardized platform for the secure transfer of digital media while enabling **Secure Digital Music Initiative** (SDMI)-capable applications and hardware.

-- Windows Media Services SDK. The Windows Media Services SDK provides ...

...Microsoft Corp.

NOTE TO EDITORS: If you are interested in viewing additional information on Microsoft, **check out** the Microsoft Web page at <http://www.microsoft.com/presspass/> on Microsoft's corporate information...

29/K/19 (Item 2 from file: 613)

PR Newswire

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...digital rights management platform,
has been designed in anticipation of meeting the requirements of the
Secure
Digital Music Initiative (SDMI).

As part of the agreement, Microsoft is providing optimized software
versions of Windows Media...Corp.

NOTE TO EDITORS: If you are interested in viewing additional information
on Microsoft, please **check out** the Microsoft Web page at
<http://www.microsoft.com/presspass/> on Microsoft's corporate information...

29/K/20 (Item 3 from file: 613)
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...Will Poole, senior director, marketing and business
development, Streaming Media Division, Microsoft.

Working With the **Secure Digital Music**
Initiative (SDMI)

Sony Music Entertainment and Microsoft are both active members of SDMI
and
are working...

...Microsoft Corp.

NOTE TO EDITORS: If you are interested in viewing additional information
on Microsoft, **check out** the Microsoft Web page at
<http://www.microsoft.com/presspass/> on Microsoft's corporate information...

29/K/21 (Item 1 from file: 813)
PR Newswire
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...Industry Association of America (RIAA) and Microsoft commented on
reducing piracy and working on the **Secure Digital**
Music Initiative.

Today's announcements demonstrate broad industry support for Microsoft Windows Media Technologies and show how...for security and rights-management technologies. The company has also made initial proposals to the **Secure Digital Music Initiative** (SDMI), the technology forum organized by the worldwide recording industry.

"The RIAA is very concerned...

NOTE TO EDITORS: If you are interested in viewing additional information on Microsoft, **check out** the Microsoft Web page at <http://www.microsoft.com/presspass/> on Microsoft's corporate information...

29/K/22 (Item 2 from file: 813)
PR Newswire
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...for digital music distribution. Both companies are looking forward to working with the industry's **Secure Digital Music Initiative** (SDMI) to further define requirements for software systems that will help make high-quality music...

NOTE TO EDITORS: If you are interested in viewing additional information on Microsoft, **check out** the Microsoft Web page at <http://www.microsoft.com/corpinfo/> on Microsoft's corporate information...

29/K/23 (Item 1 from file: 16)
Gale Group PROMT(R)
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...Tokyo, Japan, jointly developed the secure-digital (SD) memory card. This device, which incorporates the **secure-digital-music-initiative** (SDMI) security and copy-protection standard, will initially be available in 32- and 64-Mbyte...

...data (music, books, software applications, maps, etc.) can be checked in (moved to the card), **checked out** (moved from the card), or copied to other SDMI-compliant cards that also have the necessary copy restrictions in place.

The check-in/**check-out** feature will give content owners the confidence that their material is protected. It will let...

19991004

29/K/24 (Item 2 from file: 16)
Gale Group PROMT(R)
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TAKING STOCK: News that the **Secure Digital Music Initiative** (SDMI) is edging closer to providing copyright protection for digitally downloaded music (see story, page...

...exclusively for MTV by Thomas Dolby's Beatnik Inc.
David Bowie fans who haven't **checked out** BowieNet recently have reason to get reconnected. Bowie's new album "hours" is not due...

19990821

29/K/25 (Item 3 from file: 16)
Gale Group PROMT(R)
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(USE FORMAT 7 FOR FULLTEXT)

Text:

THE **SECURE Digital Music Initiative** (SDMI) has kept to its schedule, publishing Version 1.0 of its Portable Device Specification...

...software can include any number of "usage rules," including the option for a "check-in, **check-out**" setting and "try before you buy."
Plans also include development of an SDMI logo that...

19990724

29/K/26 (Item 4 from file: 16)
Gale Group PROMT(R)
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...related to digital downloads. "They announced that they will make their music available through the **Secure Digital Music Initiative** (SDMI) by this coming Christmas," he says. "We view that as a positive step. If...

...You may also hear the track excerpts play in the sequence you've chosen, and **check out** advice on other tracks suggested by the system on basis of what you've already...

19990401

29/K/27 (Item 1 from file: 148)

Gale Group Trade & Industry DB

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SDMI portable spec adds copy limit but remains open-ended.(Secure Digital Music Initiative's first formal specification for portable digital music players released on July 16, 1999)

Text:

The **Secure Digital Music Initiative** (SDMI) released its first formal specification on July 16 after several days delay, reportedly due...

...can simply be ripped again. The specification also provides for concepts such as 'check in, **check out**,' which could be used to allow a consumer to maintain libraries of protected content on...

Descriptors:

Secure Digital Music Initiative--

19990801

29/K/28 (Item 1 from file: 20)

Dialog Global Reporter

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(USE FORMAT 7 OR 9 FOR FULLTEXT)

...like the Diamond Rio (see right). If you've got a palmtop running Windows CE, **check out** Hum ([www. utopiasoft. com](http://www.utopiasoft.com)), a program

which will turn it into an MP3 player.

I...

...them back in any order you like. For the record companies, it's SDMI, the **Secure Digital Music Initiative** which uses a kind of electronic authentication 'stamp' to mark recordings that can be legally...

19991012

29/K/29 (Item 2 from file: 20)

Dialog Global Reporter

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(USE FORMAT 7 OR 9 FOR FULLTEXT)

...s programmable Digital Signal Processors (DSPs). The new portable device will meet the newly-released **Secure Digital Music Initiative** (SDMI) guidelines for portable consumer devices, and playback secure digital music files that are downloaded...

...than 200 online retailers. Using Liquid Player software, consumers visiting these sites can sample music, **check out** lyrics and liner notes, securely purchase and download the single right to their PC, and...

19990824

29/K/30 (Item 3 from file: 20)

Dialog Global Reporter

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(USE FORMAT 7 OR 9 FOR FULLTEXT)

...had been launched simply to buy time for the RIAA's response to MP3, the **Secure Digital Music Initiative** (SDMI), to settle on an industry-wide standard format for the time when they would...

...four copies of a song on to their hard drive, three of which may be "**checked out**" to a portable device.

Whatever format turns out to be the industry standard, SDMI-compliant ...tracks by 11,000 artists. Even with RealAudio extracts of each and every track to **check out**, downloading a song from one of these sites is like taking a lucky dip in...

19990724

29/K/31 (Item 4 from file: 20)

Dialog Global Reporter

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(USE FORMAT 7 OR 9 FOR FULLTEXT)

...engine to your site but don't have the time or money to install one,
check out Free Find. The service offers Web sites a free
search engine and currently serves 15...

...America (RIAA) to silence the download-friendly format once and for all.
Last fortnight, a **Secure Digital Music**
Initiative (SDMI) meeting in London proposed a plan that could force
developers to choose among wannabe...

19990615

29/K/32 (Item 5 from file: 20)

Dialog Global Reporter

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(USE FORMAT 7 OR 9 FOR FULLTEXT)

...industry has been understandably worried about this format for some time
and have launched the **Secure Digital Music**
Initiative (SDMI) to combat it.

A new technology from Global Music Outlet, called MP4, has been...

...s time.

If you are in the market for neat gadgets you might like to
check out Card Scan 300. This is a dedicated business card
scanner that reads in business cards...

19990127

29/K/33 (Item 1 from file: 570)

Gale Group MARS(R)

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Abstract:

The music industry-backed organization called the **Secure**
Digital Music Initiative revealed a number of new
details in publishing it proposed specifications for portable digital

Internet...

...tracks which are ripped and encoded on a personal computer, and an optional check-in/**check-out** procedure that could be applied to compliant content on future packaged media as well as...

19990726

29/K/34 (Item 1 from file: 633)

Phil.Inquirer

(c) 2007 Philadelphia Newspapers Inc. All rights reserved.

...to the big music companies. Instead of sending company reps all over the country to **check out** different bands or sifting through a bottomless pile of demos, those same people can sit...

...and tapes, piracy is not an issue.

Just recently, a recording industry group called the **Secure Digital Music Initiative** announced an agreement on design specifications that will prevent portable MP3 players from playing songs...

990722

? t s29/7/33

29/7/33 (Item 1 from file: 570)

Gale Group MARS(R)

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01941328 **Supplier Number:** 63785299

Spec reveals new details.

Palenchar, Joseph

TWICE , p 26(1)

July 26 , 1999

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? t s29/9/33

29/9/33 (Item 1 from file: 570)

Gale Group MARS(R)

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01941328 **Supplier Number:** 63785299

Spec reveals new details.

Palenchar, Joseph

TWICE , p 26(1)

July 26 , 1999

ISSN: 0892-7278

Language: English **Record Type:** Abstract

Document Type: Magazine/Journal ; Trade

Abstract:

The music industry-backed organization called the **Secure Digital Music Initiative** revealed a number of new details in publishing its proposed specifications for portable digital Internet-audio disc players. These include a four-copy 'limit' on computer disc music tracks which are ripped and encoded on a personal computer, and an optional check-in/**check-out** procedure that could be applied to compliant content on future packaged media as well as to Internet downloads.

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Publisher Name: Cahnners Publishing Company

Event Names: *350 (Product standards, safety, & recalls)

Geographic Names: *1USA (United States)

Product Names: *3651533 (Digital Audio Disc Players)

Industry Names: BUSN (Any type of business); ELEC (Electronics)

Naics Codes: 33431 (Audio and Video Equipment Manufacturing)

? t s29/9/30

29/9/30 (Item 3 from file: 20)

Dialog Global Reporter

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06414195 (THIS IS THE FULLTEXT)

Could this portable music player bring down the record industry?

ALASTAIR MABBOTT

SCOTSMAN, p 10

July 24, 1999

Journal Code: FSCT **Language:** English **Record Type:** FULLTEXT

Word Count: 1950

The three little digits MP3 may not mean much to you now, but over the past couple of years they've thrown the record industry into a state of mild panic. By Christmas, when the first portable MP3 players are scheduled to come on the market, they may well be inescapable.

An MP3 is an audio file, which compresses the information on a CD to a fraction of its normal size without significant loss of quality. It's easily stored on a computer's hard drive and transported across the internet.

Its champions claim that it could nudge the balance of power in the music industry away from the record companies and towards the artists themselves. Musicians could sell their wares directly to the public through websites, cutting out the middle man and benefiting from a much higher profit margin than they would enjoy in a traditional recording contract. Already, prominent recording artists including Prince, Todd Rundgren and Ice-T are making use of the MP3 technology to undermine the commercial power of the recording companies.

The MP3 phenomenon might be best understood in metaphors. For example, the music industry may in future need to think of itself as a cafe that sells its customers what they need to make coffee at home. At the heart of the MP3 debate are discussions of what ownership and copyright actually mean in a digital age when solid artefacts are being replaced with strings of ones and zeroes.

The reasons for the fuss surrounding MP3 files are their small size, their high quality and the fact that they have no built-in security measures to prevent them being duplicated. So once a piece of music has been taken from a CD, unauthorised copies can proliferate all over the internet without any revenue going to the writer, publisher or record company. Already, people are trading MP3s in vast numbers, making them available via internet newsgroups or setting up their own websites, from which anyone with a big enough hard drive on their computer could download the entire Top 20 of the day. The increasing popularity of CD "burners" enables people to press the tracks on to their own home-made CDs too.

The Recording Industry Association of America (RIAA) - representing the world's six biggest record companies - noted with alarm that thousands

upon thousands of its members' copyrighted songs were being distributed freely through the internet, and hit the roof when Diamond Multimedia brought out a portable MP3 playback device called the Rio. About the size of a deck of cards, the Rio allows its users to transfer MP3s from their PCs and listen to them on the hoof, just like a regular personal stereo.

The prospect of Rio and a host of MP3 players from other manufacturers was more than the RIAA could tolerate. Last autumn, the organisation sued to prevent Rio being distributed, alleging that it was in violation of the 1992 Audio Home Recording Act. But their case crashed in June, when a US circuit court judge ruled that the Rio is not a recording device, any more than a CD player is.

Many thought that the ultimately futile lawsuit had been launched simply to buy time for the RIAA's response to MP3, the **Secure Digital Music Initiative** (SDMI), to settle on an industry-wide standard format for the time when they would be selling downloadable music themselves. Ideally, the chosen format would be encrypted so that only authorised users could play it and make back-up

copies, and have a digital "watermark" embedded so that illegal copies could be identified and traced back to their source.

Details about the system finally chosen should be revealed in August - the SDMI is working to a timetable dictated by manufacturers' need to have players in the shops by Christmas - but earlier this month a 35-page document was released which spelled out the guidelines for hardware manufacturers and software designers. It restricts consumers to making four copies of a song on to their hard drive, three of which may be "**checked out**" to a portable device.

Whatever format turns out to be the industry standard, SDMI-compliant players will be allowed to play regular MP3 files too, at least for the time being. There is vague wording about a second phase in which new software will "filter out pirated material", though it's yet to be revealed how.

The RIAA's line has always been that it wanted to crack down on piracy and in the process come up with a secure standard format. But MP3 buffs were quick to point out that there's a lot more to the format than just pirating existing CDs.

Thousands of performers across the globe are already using the technology to bypass the music industry, marketing their recordings directly to the cyber public. In most cases, it's little more than a digital-age equivalent of vanity publishing, but the possible implications for the future of the industry are easy to see. The Beastie Boys were among the first to place MP3s of new work on the internet, and since then numerous artists, such as Tom Petty and Billy Idol, have stuck a toe in the water, usually to find that contractual obligations mean they can do little more than that.

Todd Rundgren, however, is one artist who seems to have done well from disseminating new material for an annual subscription fee to his website, and others are viewing downloading as a major part of their future operations.

Public Enemy, one of the most notable converts to the cause, turned to the internet when Polygram delayed the release of their last album for so

long that the group resorted to placing MP3s of tracks on their website. That's where you'll find their controversial new track Swindlers Lust. Just click under the bit where it says: "This is anti-corporatism" -a provocative flaunting of MP3's political and commercial implications. Ice-T, meanwhile, has plans to establish "the first totally internet hardcore label", providing daily reports to the artists and a healthier chunk of the profits. Its name? Coroner Records, because "it's about the death of the music industry".

Public Enemy's Chuck D took a less bombastic line, telling the New York Music And internet Expo, "MP3 won't destroy the record companies. It will just split the market a into a million artists and 500,000 labels." In the immediate future, he intends to start an internet rap radio station and has other plans up his sleeve too. "Everything I do," he said, "is internet first."

There's every reason to suppose that both Ice-T's and Chuck D's ventures will flourish, and that Todd Rundgren will carry on making a good living from his website. But these are all established names. No artist has yet broken through to the wider marketplace as a result of internet exposure, and you only need to glance at the websites to see why it'll be a long time before that happens.

So the corporate record labels are far from finished, but some interesting new business models are springing up. At the heart of it all is MP3.com, a sprawling website containing opinionated editorials and bulletin boards on the debate, plus a huge inventory of thousands of MP3s of original material by new artists, all completely legal. Under MP3.com deals, artists can market and distribute their material, including the manufacture of CDs, at no charge to themselves and with a 50/50 split of any profits.

From early entrants like Cerberus and Liquid Audio, there are now enough internet music shops to spend a whole day browsing them. Most use some kind of non-standard audio format which can't be played on any other company's software, and most sites provide a RealAudio or streaming MP3 extract so you can try before you buy.

One of the brand leaders is Emusic, which lured Frank Black, Ziggy Marley and They Might Be Giants into its roster and last month struck a deal with Epitaph Records to sell MP3s by artists like The Offspring and Bad Religion. They aren't getting to put up the whole Epitaph roster, but it's a significant deal, making Emusic the first online company to sell and promote large portions of a record company's catalogue.

Ken Wirt, the man who launched the Rio when he was with Diamond Multimedia, has now thrown his hat in the ring with a company called Riffage.com. Wirt aims to provide artists with a far greater cut of the earnings - 85 per cent, compared to the 50 per cent offered by MP3.com and Emusic - as well as daily updates on sales and where their tracks rank in the Riffage chart.

Riffage started out last month with something like 1,000 artists on board. MP3.com has roughly 56,000 tracks by 11,000 artists. Even with RealAudio extracts of each and every track to **check out**, downloading a song from one of these sites is like taking a lucky dip in a sack the size of the Grand Canyon. The sites are too diffuse, quality control is not a high priority and sooner or later they'll have to take on some of the marketing and promotion roles of the record companies for which

they were supposed to provide an alternative.

Collaborative filtering may be the way forward. Internet users are becoming more accustomed to websites personalising their content, based on choices they've made on previous visits. Customers' preferences are stored

in a personal profile and compared with those of people with similar tastes so that they can be targeted with suggestions of other things they might like to try. The online booksellers Amazon.com use collaborative filtering extensively, and it's a system that would be ideal for users trying to chart a path through the morass of MP3s.

The latest survey, made by analysts Jupiter Communications predicts that only 3 per cent of online consumers will purchase digital music by 2003, so all this might seem highly theoretical, especially to people who don't have a computer or an internet connection. But downloadable music will have made its mark on the high street by the end of the year.

When the new Virgin Megastore opened in Columbus, Ohio, its customers became the first, apart from trials in cybercafes, to be able to download music in-store. Since 16 July, they've been able to pick from 800 tracks spread over eight websites -Liquid Audio, CDuctive, AMP3.com, Amplified.com, songs.com, Riffage, Mjuice and Noisebox - and have their choices burned on to a one-off, customised compilation CD right there and then. Virgin plans to expand the scheme to the rest of its American stores in the autumn, by which time, they say, full albums from major record labels will be available for download.

The kiosk system, as it's called, has been kicking around for a few years, and it's taken Virgin's partnership with the high-speed digital network of RedDotNet to make it possible. RedDot is a subsidiary of Digital On Demand, which wants people without internet access to benefit from the digital revolution too. Sony has been the first to bite the bullet, announcing that it will be making 70 per cent of its catalogue available to record shops through RedDot's network. A whole CD will be burned in less than a minute, it's claimed, with packaging printed out and assembled over the counter.

Eventually, we may see the disappearance of CDs, as streams of digital music on demand render the formats that used to carry them obsolete. But that's a long way away. In the meantime, we can look forward to Digital On Demand's system being adapted to download music onto portable, SDMI-compliant players. So even non-computer owners could find the Rio, and other devices of its kind, worth e-mailing Santa about.

Copyright 1999 The Scotsman. Source: World Reporter (Trade Mark) - FT McCarthy.

Country Names/Codes: United States of America (US)

Regions: Americas; North America; Pacific Rim

SIC Codes/Descriptions: 3652 (Prerecorded Records & Tapes)

? t s29/9/27

29/9/27 (Item 1 from file: 148)

Gale Group Trade & Industry DB

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11363203 **Supplier Number:** 55831263 (THIS IS THE FULL TEXT)

SDMI portable spec adds copy limit but remains open-ended.(Secure Digital Music Initiative's first formal specification for portable digital music players released on July 16, 1999)

Tape-Disc Business , 13 , 8 , 14(2)

August , 1999

Language: English

Record Type: Fulltext

Word Count: 558 **Line Count:** 00047

Text:

The **Secure Digital Music Initiative** (SDMI)

released its first formal specification on July 16 after several days delay, reportedly due to last-minute discussion regarding the number of times a song can be copied from its original source. The open standard specification for portable digital music players - reached by SDMI's 110-plus member companies, including representatives of the recording, Internet/online and electronics manufacturing companies is based on voluntary utilization by SDMI's members and does not have any legislative weight at present. SDMI has predicted that compliant devices will be on the market in time for Christmas 1999.

Two phases have been planned for the portable players specification, which is not format-specific (MP3, AAC, EPAC, MS Audio and all other digital music compression formats are covered). The first phase will allow for the playing of both protected and unprotected files. Phase two will involve a new screening technology which will filter out illegitimately distributed SDMI compliant songs, though the specifics behind the screening technology

have yet to be revealed. In addition, a new aspect of the specification, involving a limit on the number of copies of a "ripped" (copied) song that can be made, was introduced for the first time during an announcement by SDMI Executive Director Leonardo Chiariglioni and SDMI Portable Device Working Group Chairman Jack Lacy.

"The SDMI Specification is a great example of technology partnerships that can open new markets," said Hillary Rosen, CEO of the RIAA, whose

constituency are among those pushing hardest for secure downloads.

"Consumers can continue to rip or copy songs from their CDs onto their personal computers or portable devices, as they do today," Lacy said, before adding that "four copies can be made each time the CD is copied or 'ripped.' If more copies are needed, the original disc can simply be ripped again. The specification also provides for concepts such as 'check in, **check out**,' which could be used to allow a consumer to maintain libraries of protected content on a personal computer.... The reason for this is that we want to discourage the 'filling station' model that people will rip a CD once and then make an infinite number of copies for people that just come and plug in to the PC with their devices."

It was indicated, however, that music creators will be able to specify the rules of use for their recordings, allowing, for example, more than four copies of a song to be made each time the recording is ripped. "Legacy" recordings - those released prior to SDMI's adoption - and those made without specific rules of use, will fall under the four copies-per-rip default. It was unclear, as of press time, as to whether or not the technology to limit the number of duplications already exists or whether it will be developed by software authors, hardware manufacturers, master recording owners or any combination of these groups. Lacy also made it clear that music creators will have the option to leave their works unprotected and still have them played by SDMI compliant devices.

Additional announcements from SDMI, regarding development and implementation of new standards, are pending. For more information, log on to www.sdmi.org.

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Industry Codes/Names: ARTS Arts and Entertainment; BUSN Any type of business

Descriptors: **Secure Digital Music Initiative**--Laws, regulations, etc.; Audio equipment--Laws, regulations, etc.; Compact discs --Laws, regulations, etc.

Product/Industry Names: 3651030 (Consumer Audio Equipment)

Product/Industry Names: 3651 Household audio and video equipment

NAICS Codes: 33431 Audio and Video Equipment Manufacturing

File Segment: TI File 148

? t s29/9/25

29/9/25 (Item 3 from file: 16)

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06514914 **Supplier Number: 55263085 (THIS IS THE FULLTEXT)**

THE SECURE.

GILLEN, MARILYN A.

Billboard , v 111 , n 30 , p 83

July 24 , 1999

ISSN: 0006-2510

Language: English **Record Type:** Fulltext

Document Type: Magazine/Journal ; General

Word Count: 291

Text:

THE SECURE Digital Music Initiative

(SDMI) has kept to its schedule, publishing Version 1.0 of its Portable Device Specification for digital audio content. The specs, which can be accessed at www.sdmi.org, contain few surprises-the contents had been previewed earlier (Billboard, July 10)-but do modify the stance on so-called "legacy" product (CDs already on the market), which had been expected to remain unprotected in SDMI's proposed technological approach for preventing piracy. The specs call for what Jack Lacy, head of SDMI's portable device working group, describes as "default" rules that would limit to four the number of copies that can be made of songs copied (or "ripped") from a CD. If more copies are desired, however, the original disc can simply be re-ripped. The idea is to discourage casual copying by making it a little more burdensome, SDMI participants said. "We want to discourage the 'filling station' model-where you set up online and an infinite number of people will come by and pick up a copy," Lacy said. Beyond this "default" on legacy CDs, new-music software can include any number of "usage rules," including the option for a "check-in, **check-out**" setting and "try before you buy." Plans also include development of an SDMI logo that would be used to signify compliance. "It will tell the customer that he has access to a lot of content and that this is the rightful way to consume it in the digital world," said Leonardo Chiariglione, who is heading SDMI. Details of the compliance procedure for securing the logo are still being worked out, Lacy said, as is the major detail: choosing the technology that will be used to screen out unauthorized content. An August goal for the latter has been set

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Publisher Name: BPI Communications, Inc.

Event Names: *350 (Product standards, safety, & recalls)

Geographic Names: *1USA (United States)

Product Names: *3652001 (Consumer Audio Recordings)

Industry Names: ARTS (Arts and Entertainment); BUSN (Any type of business)

NAICS Codes: 51222 (Integrated Record Production/Distribution)

? ts29/9/23

29/9/23 (Item 1 from file: 16)

Gale Group PROMT(R)

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06760058 **Supplier Number: 56021423 (THIS IS THE FULLTEXT)**

Secure Memory-Card Standard Promises To Keep Digital Multimedia Under Control.

Bursky, Dave

Electronic Design , v 47 , n 20 , p 27

Oct 4 , 1999

ISSN: 0013-4872

Language: English **Record Type:** Fulltext Abstract

Document Type: Magazine/Journal ; Trade

Word Count: 741

Abstract:

A secure memory card storage format was developed to protect digital data and media formats. The features of this new format are discussed.

Text:

Developed to allay fears of the unrestrained transfer of digital music and other multimedia content, a secure memory-card storage scheme and flash-memory storage format promise to provide some degree of control. In the forthcoming standard, encryption and security keys restrict unauthorized copying. At the same time, the standard gives users a compact storage medium for content.

Matsushita Electric Co. Ltd., Osaka, Japan; SanDisk Corp., Santa Clara, Calif.; and Toshiba Corp., Tokyo, Japan, jointly developed the secure-digital (SD) memory card. This device, which incorporates the **secure-digital-music-initiative** (SDMI) security and copy-protection standard, will initially be available in 32- and 64-Mbyte capacities. In 64 Mbytes, users could store about one hour of MP3-format music. Alternatively, about 50 Mbytes would be needed for a GPS application like a detailed map of California. About 100 Mbytes would be required for 15 minutes of full-motion video and audio.

The SD card was designed to meet the converging security, capacity, ergonomic, and performance requirements of the emerging audio, video, data, and multimedia consumer markets. It's similar in size to the multimedia card, but slightly thicker--24 by 32 by 2.1 mm. (The older card

is 1.4 mm deep.) The thicker format will hold more chips, providing higher storage capacities than the non-secure cards.

The SD card packs a superset of the 7-pin interface employed on the standard multimedia card. The superset includes two more data pins, and one no-connect pin in the older format is now defined as a data pin. These changes provide the SD card with a total of four data lines. This availability will allow data transfers to scale from the initial 2 Mbytes/s up to 10 Mbytes/s in future versions of the card. Systems will then be able to perform audio downloads up to four times faster than the original single-data-line multimedia card. In turn, that will reduce the download time for a 120-minute playback to just over 10 seconds with all four lines, or to about 22 seconds if two data lines are used.

Also included on the card is a write-protect switch that can be set to prevent accidental overwriting of stored data. Additionally, the card basically has the same footprint as the non-secured version. New connectors/sockets established for the 9-contact SD multimedia card, then, can accept the older 7-contact multimedia cards (see the figure). That will enable all the legacy multimedia cards to still be used in SD systems.

One controller chip and one or more flash-memory chips will typically be inside the SD cards. The controller incorporates the proprietary security features that will facilitate the secure exchange of content between host devices and the card. Cryptographic security, which will protect copyrighted data, is based on proven security concepts from DVD audio systems. The security level has been designed to comply with both current and future SDMI portable-device requirements.

The SD card will comply with all three levels of SDMI security requirements. Both non-protected (category 1) and copy-protected (categories 2 and 3) material can be stored on the card. Copy-protected material can be secured either by a unique card-bound identification (category 2), or by an active cryptographic algorithm (category 3), which involves challenge/response protocols against a private key. The security features also permit the card to revoke noncompliant SDMI components using a media-key block if security is breached. With this scheme, a content provider's data (music, books, software applications, maps, etc.) can be checked in (moved to the card), **checked out** (moved from the card), or copied to other SDMI-compliant cards that also have the necessary copy restrictions in place.

The check-in/**check-out** feature will give content owners the confidence that their material is protected. It will let users move the authorized files from a central storage location to wherever they are needed, too. Control applications currently in development will manage the data transfers and keep track of how many copies were purchased or

authorized.

To make it all work, content providers like BMG Entertainment, Warner Bros., and Atlantic Records are working in conjunction with major software vendors like Microsoft, Symbian, and Liquid Audio. All of these companies will work with key silicon suppliers to define the controllers and other logic required to implement not just the controller chip, but the card readers, docking devices, and other peripheral interfaces. A host developer's toolkit will be available early next year. Sample SD cards will

be ready in the first quarter, with prices comparable to existing flash-based cards.

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Publisher Name: Penton Media, Inc.

Event Names: *331 (Product development)

Geographic Names: *1USA (United States)

Product Names: *3679142 (Optical Memory Cards)

Industry Names: BUSN (Any type of business); CMPT (Computers and Office Automation); ELEC (Electronics)

NAICS Codes: 334613 (Magnetic and Optical Recording Media Manufacturing)

? t s29/9/23

29/9/23 (Item 1 from file: 16)

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06760058 **Supplier Number:** 56021423 (THIS IS THE FULLTEXT)

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Publisher Name: Penton Media, Inc.

Event Names: *331 (Product development)

Geographic Names: *1USA (United States)

Product Names: *3679142 (Optical Memory Cards)

Industry Names: BUSN (Any type of business); CMPT (Computers and Office Automation); ELEC (Electronics)

NAICS Codes: 334613 (Magnetic and Optical Recording Media Manufacturing)

? d s

Set Items Description

S1 70643070 S PD<19991217

S2 1786 S (COMBINE OR COMBINING OR COMBINED OR COMBINES)(5N)((DIGITAL OR ELECTRONIC OR DERIVATIVE OR COMPOSITE)(2W)(CONTENT OR WORK? ?))

S3 86 S (COMPOSITE OR COMPOSITES)(5N)((DIGITAL OR ELECTRONIC OR DERIVATIVE)(2W)(CONTENT OR WORK? ?))

S4 15 S S1 AND S3

S5 14 RD (unique items)

S6 18512683 S (RIGHTS(W)MANAGEMENT) OR ((DIGITAL OR USE OR USAGE)(3N)(PERMISSION OR PERMISSIONS OR RIGHT OR RIGHTS)) OR DRM OR LICENSE OR LICENSED OR LICENSES OR LICENSING OR (INTELLECTUAL(W)(PROPERTY OR PROPERTIES)) OR COPYRIGHT OR COPYRIGHTS

S7 6 S S1 AND S3 AND S6

S8 6 RD S7 (unique items)

S9 79 S S1 AND S2 AND S6

S10 40 RD (unique items)

S11 20713 S (COMBINE OR COMBINING OR COMBINES OR COMBINED OR COMPOSITE)(5N)((DIGITAL OR USE OR USAGE)(3N)(PERMISSION OR PERMISSIONS OR RIGHT OR RIGHTS)) OR LICENSE OR LICENSED OR LICENSES OR LICENSING)

S12 6467 S S1 AND S11

S13 5 S S12 AND S3

S14 884 S (COMBINE OR COMBINING OR COMBINES OR COMBINED OR COMPOSITE)(5N)((DIGITAL OR USE OR USAGE)(3N)(PERMISSION OR PERMISSIONS OR RIGHT OR RIGHTS))

S15 243 S S14 AND S1

S16 69098 S MAXIMUM(3N)(TRANSFER OR TRANSFERS OR USE OR USAGE OR ACCESS)

S17 9 S S15 AND S16

S18 9 RD (unique items)

S19 3883 S DIGITAL(W)RIGHTS(W)MANAGEMENT(W)TECHNOLOGY

S20 310 S S1 AND S19

S21 0 S S20 AND WEBER

S22 13 S S15 AND S19

S23 52049 S (DIGITAL(W)RIGHTS(W)MANAGEMENT)

S24 572 S S23 AND WEBER

S25 79 S S24 AND ROBERT

S26 4960 S SECURE(W)DIGITAL(W)MUSIC(W)INITIATIVE

S27 2646 S S1 AND S26

S28 78 S S27 AND (CHECK-OUT OR CHECKED-OUT OR (CHECK??(W)OUT))

S29 34 RD (unique items)

? s maximum or less or greater or equal or equaling or equaled or same or minimum

Processing

Processing

Stop request submitted

>>>P: Processing stopped

? S (s29 and (MAXIMUM OR total or totaling or totalling or LESS OR GREATER OR EQUAL OR EQUALING OR EQUALED OR SAME OR MINIMUM)

>>>W: Unmatched parentheses

>>>E: There is no result

? S S29 AND (MAXIMUM OR TOTAL OR TOTALING OR TOTALLING OR LESS OR GREATER OR EQUAL OR EQUALING OR EQUALED OR SAME OR MINIMUM)

Processing

34 S29

3591456 MAXIMUM

16061603 TOTAL

875903 TOTALING

285177 TOTALLING

15096595 LESS

7437040 GREATER

3295167 EQUAL

39350 EQUALING

80020 EQUALED

22260462 SAME

3389702 MINIMUM

S30 19 S S29 AND (MAXIMUM OR TOTAL OR TOTALING OR TOTALLING OR LESS OR GREATER OR EQUAL OR EQUALING OR EQUALED OR SAME OR MINIMUM)

? rd

>>>W: Duplicate detection is not supported for File 348.

Duplicate detection is not supported for File 349.

Duplicate detection is not supported for File 347.

Records from unsupported files will be retained in the RD set.

S31 19 RD (UNIQUE ITEMS)

? t s31/k/all

31/K/1 (Item 1 from file: 15)

ABI/Inform(R)

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Abstract:

The **Secure Digital Music Initiative** has

instilled more fear in music lovers than Attila the Hun did in Roman citizens...

Text:

The **Secure Digital Music Initiative** (SDMI) has instilled more fear in music lovers than Attila the Hun did among Roman...

...FIGURE 4,

SDMI's copying model functions like a library. The usage rules let you **check out** (or copy) original content a specific number of times. Once the content is **checked out**, it becomes Portable Media that may be played on a PD.

However, PM is not...

...a copy of the PM. If you want to make an additional copy, you must **check out** an additional copy from the original content. SDMI hopes that this restriction will reduce the...

...can no longer create a new PM until you return, or check in, outstanding, or **checked out**, PIM(s). By default, the SDMI specification limits you to four check outs per original. Fortunately ...it will only slow down, not stop, professionals). Casual piracy is eliminated by the library **check-out** system, watermarking, encryption, and other security measures.

An equally important goal of SDMI is to...detecting the presence of the trigger and taking the appropriate action. As a result, the **same** trigger detection code must be duplicated by each vendor.

A more elegant architecture would provide...

...Shakespeare's Macbeth: "Full of sound and fury signifying nothing."

THE SDMI ACRONYM KEY

SDMI: **Secure Digital Music Initiative**

IP: Intellectual Property

LCM: Licensed Compliance Modules

PM: Portable Media

PD: Portable Devices

SAC: Secure...

31/K/2 (Item 1 from file: 9)

Business & Industry(R)

(c) 2007 The Gale Group. All rights reserved.(USE FORMAT 7 OR 9 FOR FULLTEXT)

(...Walkman, which it calls the first audio player to comply with the specifications of the **Secure Digital Music Initiative** (SDMI)

TEXT:

...developed what it calls the first audio player to comply with the specifications of the **Secure Digital Music Initiative** (SDMI). The company also hopes the Memory Stick Walkman will become the killer application for...

...digital data, encrypts it and converts the data for hard-disk storage. OpenMG creates a **maximum** of four copies of digital audio content. Setting aside one copy for direct playback from...

...can then be used in other Memory Stick Walkmen. But if the user wants to "**check out**" the **same** content to a fourth Memory Stick, one copy must be checked in to the hard...

31/K/3 (Item 1 from file: 610)

Business Wire

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...protection of artists' copyrights. We hope that with the streaming function even more fans will **check out** music on the Internet. We're looking forward to doing more promotions in the future...

...that respects the copyright holder's property." Player 2.0 Features Include: Faster Music Downloads, **Less** Memory:

By compressing songs at a 15:1 compression rate (or 96KBPS), the a2b music...

...both previous 128 KBPS a2b music offers and MP-3 files and also use up

less memory on their system. With the a2b music Player 2.0 a three-minute song...

...download full-length songs at CD-quality using the a2b music compression technology and the **same** player. New songs up on the a2b music site will have streaming samples, as permitted...

...available through a licensing program. AT&T and a2b music are founding members of the **Secure Digital Music Initiative**

(SDMI) Forum, which will create a voluntary digital music security specification.

Since its launch in...

31/K/4 (Item 1 from file: 810)

Business Wire

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...guy, I know that programmers and MDs don't have a lot of time to **check out**

new music or play with fussy applications. a2b MAIL lets them listen to a sample...

...song."

"Single White Female" is the first single from Wright's upcoming album of the **same** title, which is slated for a May 18 release. With three albums under her belt...

...available through a licensing program. AT&T and a2b music are founding members of the **Secure Digital Music Initiative**

(SDMI) Forum, which will create a voluntary digital music security specification.

Since its launch in...

31/K/5 (Item 1 from file: 275)

Gale Group Computer DB(TM)

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...move meant wrestling with multiple 50-pound boxes of vinyl albums. Ten years ago, those **same** cardboard boxes labeled "Music" contained compact discs in plastic jewelboxes--and weighed half as much...

...CD requires about 600MB of storage space. But MP3 and other formats can squeeze that **same** disc into just 60MB of disk space, without

significantly degrading its quality. At this level...Copy Wrong?") But the frontier-style free-for-all may not last much longer. The **Secure Digital Music Initiative**, launched in late 1998 by the Recording Industry Association of America and five major recording...on how to find the best online radio stations and how to optimize their playback, **check out** "The Web Is Alive With the Sound of Music" in Internet Tips.
Why Don't...

19991101

31/K/6 (Item 2 from file: 275)
Gale Group Computer DB(TM)
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Walkman grabs a stick . . . (Sony's Memory Stick Walkman supports the Secure Digital Music Initiative) (Product Development)

Text:

...developed what it calls the first audio player to comply with the specifications of the **Secure Digital Music Initiative** (SDMI). The company also hopes the Memory Stick Walkman will become the killer application for...

...digital data, encrypts it and converts the data for hard-disk storage. OpenMG creates a **maximum** of four copies of digital audio content. Setting aside one copy for direct playback from...

...can then be used in other Memory Stick Walkmen. But if the user wants to "**check out**" the **same** content to a fourth Memory Stick, one copy must be checked in to the hard...

19990927

31/K/7 (Item 3 from file: 275)
Gale Group Computer DB(TM)
(c) 2007 The Gale Group. All rights reserved.

...So the industry has worked to develop a secure mechanism for delivering music online. The **Secure Digital Music Initiative** (SDMI), which has the broad support of the record companies and technology companies such as...

...of the future. Sample the 300-Kbps content available at sites like Broadcast.com or **check out** FastTV .com's news feeds. While

clearly **less** than even VHS quality, the potential of immense video libraries, available totally on de...

19990921

31/K/8 (Item 1 from file: 621)

Gale Group New Prod. Annou.(R)

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...and portable download solution for digital music that is designed to meet the newly-released **Secure Digital Music Initiative** (SDMI) guidelines for digital portable devices. Exclusively available on the Rock.com Web site at...

...securely downloaded to a Zip disk from the Rock.com site for \$1.99 or **less**.

In conjunction with its new Digital Downloads, the Rock.com site features exclusive, free downloadable...

...Player software available on Rock.com, consumers can sample high-quality music on the site, **check out** album art and liner notes, and securely download singles directly to their Zip disks," said...

...of Business Development at Liquid Audio. "Liquid Audio has also been actively involved in the **Secure Digital Music Initiative** to ensure this secure digital download solution meets SDMI requirements."

"Iomega is excited to be...

19990630

31/K/9 (Item 1 from file: 636)

Gale Group Newsletter DB(TM)

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...protection of artists' copyrights. We hope that with the streaming function even more fans will **check out** music on the Internet. We're looking forward to doing more promotions in the future...

...that respects the copyright holder's property."

Player 2.0 Features Include:

Faster Music Downloads, **Less** Memory:

By compressing songs at a 15:1 compression rate (or 96Kbps), the a2b

music...

...than both previous 128 Kbps a2b music offers and MP3 files and also use up **less** memory on their system. With the a2b music Player 2.0 a three-minute song...

...download full-length songs at CD-quality using the a2b music compression technology and the **same** player. New songs up on the a2b music site will have streaming samples, as permitted AT&T and a2b music are founding members of the **Secure Digital Music Initiative** (SDMI) Forum, which will create a voluntary digital music security specification.

Since its launch in...

19990413

31/K/10 (Item 2 from file: 636)
Gale Group Newsletter DB(TM)
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...guy, I know that programmers and MDs don't have a lot of time to **check out** new music or play with fussy applications. a2b MAIL lets them listen to a sample...

...song."

"Single White Female" is the first single from Wright's upcoming album of the **same** title, which is slated for a May 18 release. With three albums under her belt...

...available through a licensing program. AT&T and a2b music are founding members of the **Secure Digital Music Initiative** (SDMI) Forum, which will create a voluntary digital music security specification.

Since its launch in...

19990211

31/K/11 (Item 1 from file: 613)
PR Newswire
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...music players that will be
available as early as this Christmas.

-- CD-quality sound in **less** space. Windows Media offers
CD-quality audio
at half the size of MP3, enabling consumers...

...digital rights management platform,
has been designed in anticipation of meeting the requirements of the
**Secure
Digital Music Initiative** (SDMI).

As part of the agreement, Microsoft is providing optimized software
versions of Windows Media...

...in peripheral functions such as flash memory control and direct PC
connectivity, thus minimizing the **total** system cost and reducing
overall power
consumption in a portable digital audio player. The EP7212 announced today
extends the **same** technology to an emerging category of multifunction

devices
that incorporate Internet audio. And by using...Corp.
NOTE TO EDITORS: If you are interested in viewing additional information
on Microsoft, please **check out** the Microsoft Web page at
<http://www.microsoft.com/presspass/> on Microsoft's corporate information...

31/K/12 (Item 1 from file: 813)
PR Newswire
(c) 1999 PR Newswire Association Inc. All rights reserved.

...Industry Association of America (RIAA) and Microsoft commented on
reducing piracy and working on the **Secure Digital
Music Initiative**.

Today's announcements demonstrate broad industry support for Microsoft
Windows Media Technologies and show how...for security and
rights-management technologies. The company has also made initial proposals
to the **Secure Digital Music Initiative** (SDMI),
the technology forum organized by the worldwide recording industry.

"The RIAA is very concerned...

...the SDMI process to create an open specification that will reduce
piracy, while at the **same** time enable new business opportunities for
content providers and better experiences for online and other...

...Media Technologies 4.0 as a first step in addressing these issues while
at the **same** time offering consumers high-quality music. We look

forward to working with SDMI to further...

NOTE TO EDITORS: If you are interested in viewing additional information on Microsoft, **check out** the Microsoft Web page at <http://www.microsoft.com/presspass/> on Microsoft's corporate information...

31/K/13 (Item 1 from file: 16)
Gale Group PROMT(R)
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(USE FORMAT 7 FOR FULLTEXT)

Text:

...of control. In the forthcoming standard, encryption and security keys restrict unauthorized copying. At the **same** time, the standard gives users a compact storage medium for content.

...Tokyo, Japan, jointly developed the secure-digital (SD) memory card. This device, which incorporates the **secure-digital-music-initiative** (SDMI) security and copy-protection standard, will initially be available in 32- and 64-Mbyte...

...is now defined as a data pin. These changes provide the SD card with a **total** of four data lines. This availability will allow data transfers to scale from the initial...

...he set to prevent accidental overwriting of stored data. Additionally, the card basically has the **same** footprint as the non-secured version. New connectors/sockets established for the 9-contact SD...

...data (music, books, software applications, maps, etc.) can be checked in (moved to the card), **checked out** (moved from the card), or copied to other SDMI-compliant cards that also have the necessary copy restrictions in place.

The check-in/**check-out** feature will give content owners the confidence that their material is protected. It will let...

19991004

31/K/14 (Item 2 from file: 16)
Gale Group PROMT(R)
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TAKING STOCK: News that the **Secure Digital Music Initiative** (SDMI) is edging closer to providing copyright protection for digitally downloaded music (see story, page...

...exclusively for MTV by Thomas Dolby's Beatnik Inc.

David Bowie fans who haven't **checked out** BowieNet recently have reason to get reconnected. Bowie's new album "hours" is not due...

...a new piece each week.

TRAFFIC TICKER
Top Music Info Sites
Unique Visitors (in 000s)

TOTAL VISITORS

1. mtv.com	2,052
2. mp3.com	1,661
3. ubl.com	1...

19990821

31/K/15 (Item 3 from file: 16)

Gale Group PROMT(R)

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...have the techniques of duplicating recordings in commercial quantities. But the underlying model remains the **same**: capture the performance, make lots of (theoretically) identical copies, and sell those copies to consumers...

...overhead (real estate, building maintenance, sales clerks, etc.), leaving more capital available for stocking a **greater** selection of titles. Many sites also allow customers to sample before they buy, listening to...

...when all is said and done, online consumers at legitimate music sites generally buy the **same** pre-recorded product they would get from a traditional retailer.

This last point is where...

...be their custom compilation CD company until October, 2001." When visitors to Columbia House's **Total E** website (www.totale.com) select the Custom CDs option from the list of Music...

...to MusicMaker, which they are told is the exclusive make your own CD service for **Total E**. Visitors to Columbia House's members-only site are offered a similar option."

Another...that the CD has penetrated the market, but only a very small portion of the **total** number of songs in each label's catalogue are currently marketed at retail. So if...

...related to digital downloads. "They announced that they will make their music available through the **Secure Digital Music Initiative** (SDMI) by this coming Christmas," he says. "We view that as a positive step. If...

...can hold up 20 to songs and 70 minutes of music. In the US, the **minimum** charge is \$9.95 for an album containing up to five songs, plus \$1.00...

...receipt within five business days. For those outside the US, the pricing structure is the **same** except the charge for the first five songs goes up to \$12.95, and the...

...You may also hear the track excerpts play in the sequence you've chosen, and **check out** advice on other tracks suggested by the system on basis of what you've already...the storage, servers and network that make up the complete distributed storage system is now **less** than \$50 per GB, and I would expect the new arrays now coming on the...

...of these CopyPro systems, each with a capacity of 1500 units per day, for a **total** potential annual output of about 1.5 million CDs. The CopyPros are connected to the...

...picks up blank media from a spindle, and inserts it into the drive. At the **same** time, the system reads the IDs of the tracks in the job and starts transferring...

...the mailer. When volumes require it we will go to automated packaging, as well."

The **same** unique song identifiers that are used to compile the job are also used for the...signal from the Internet to the user, means that the sound quality is not the **same** as a pre-recorded CD or custom compilation.

MusicMaker also has a deal with Platinum...

19990401

31/K/16 (Item 1 from file: 20)

Dialog Global Reporter

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(USE FORMAT 7 OR 9 FOR FULLTEXT)

...had been launched simply to buy time for the RIAA's response to MP3, the **Secure Digital Music Initiative** (SDMI), to

settle on an industry-wide standard format for the time when they would...

...four copies of a song on to their hard drive, three of which may be "**checked out**" to a portable device.

Whatever format turns out to be the industry standard, SDMI-compliant ...

...s about the death of the music industry".

Public Enemy's Chuck D took a **less** bombastic line, telling the New York Music And internet Expo, "MP3 won't destroy the...ring with a company called Riffage.com. Wirt aims to provide artists with a far **greater** cut of the earnings - 85 per cent, compared to the 50 per cent offered by...

...tracks by 11,000 artists. Even with RealAudio extracts of each and every track to **check out**, downloading a song from one of these sites is like taking a lucky dip in...

...available to record shops through RedDot's network. A whole CD will be burned in **less** than a minute, it's claimed, with packaging printed out and assembled over the counter...

19990724

31/K/17 (Item 2 from file: 20)

Dialog Global Reporter

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(USE FORMAT 7 OR 9 FOR FULLTEXT)

...engine to your site but don't have the time or money to install one, **check out** Free Find. The service offers Web sites a free search engine and currently serves 15...

...actual search engine software is centrally held on the Free Find site, so it's **less** hassle for Web owners, and offers three types of reports along with advanced search capabilities...

...America (RIAA) to silence the download-friendly format once and for all. Last fortnight, a **Secure Digital Music Initiative** (SDMI) meeting in London proposed a plan that could force developers to choose among wannabe...

19990615

31/K/18 (Item 3 from file: 20)

Dialog Global Reporter

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(USE FORMAT 7 OR 9 FOR FULLTEXT)

...devices in the machine with the IDE hard drive and my music machine has a **minimum** of cards but enough to drive my synthesizer.

...industry has been understandably worried about this format for some time and have launched the **Secure Digital Music Initiative** (SDMI) to combat it.

A new technology from Global Music Outlet, called MP4, has been...

...a small price tag, I can't wait to see what you get for the **same** price in six month's time.

If you are in the market for neat gadgets you might like to **check out** Card Scan 300. This is a dedicated business card scanner that reads in business cards...

19990127

31/K/19 (Item 1 from file: 633)

Phil.Inquirer

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...to the big music companies. Instead of sending company reps all over the country to **check out** different bands or sifting through a bottomless pile of demos, those **same** people can sit at their computers and download new music. MP3 is a quicker and...

...and tapes, piracy is not an issue.

Just recently, a recording industry group called the **Secure Digital Music Initiative** announced an agreement on design specifications that will prevent portable MP3 players from playing songs...

990722

? ts31/9/6

31/9/6 (Item 2 from file: 275)

Gale Group Computer DB(TM)

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02337175 **Supplier Number: 55878804 (This Is The FULL TEXT)**

Walkman grabs a stick . . . (Sony's Memory Stick Walkman supports the Secure Digital Music Initiative) (Product Development)

Hara, Yoshiko

Electronic Engineering Times , 4

Sept 27 , 1999

ISSN: 0192-1541

Language: English **Record Type:** Fulltext

Word Count: 448 **Line Count:** 00038

Text:

TOKYO - Sony Corp. has developed what it calls the first audio player to comply with the specifications of the **Secure Digital Music Initiative** (SDMI). The company also hopes the Memory Stick Walkman will become the killer application for the chewing-gum-shaped flash card it has been promoting.

Though SDMI hasn't finalized its specs, Sony says the initiative's goals are clear. "Once digital data is downloaded to a personal computer and stored in the hard disk, copyright is ignored" in the PC environment, said Kunitake Ando, president of Sony Information Technology Co. "How to secure copyright in PCs is the hurdle that we have to clear when we try to merge PC and AV."

Version 1.0 of the SDMI spec was announced in July, and an SDMI meeting on specs was held last week in New York (see story, above). Sony says it will make the Memory Stick Walkman comply with whatever standards emerge, and will support the SDMI digital watermarking scheme.

Sony has made the Memory Stick Walkman a secure player for music downloaded from the Internet by using proprietary middleware consisting of MagicGate and OpenMG technologies, the company said.

The scheme accepts audio CD data and MP3 files distributed on networks, but Sony has prepared a proprietary environment and new data-compression technology to handle them.

MagicGate, a combination of authentication and encryption/decryption technology, relies on a chip that will go into both the new Walkman and the Memory Stick. Content is transmitted and stored in encrypted form on a Memory Stick to prevent unauthorized copying or playback. The chips in the hardware verify that each complies with MagicGate; then digital content is decrypted for playback using a public-key system.

OpenMG application software resident on a PC accepts digital data, encrypts it and converts the data for hard-disk storage. OpenMG creates a **maximum** of four copies of digital audio content. Setting aside one copy for direct playback from the hard disk, OpenMG lets three copies be transferred to three Memory Sticks, which can then be used in other Memory Stick Walkmen. But if the user wants to "**check out**" the **same** content to a fourth Memory Stick, one copy must be checked in

to the hard disk from one of the three previously used Memory Sticks. OpenMG also prevents unauthorized transmission of music across a network, and controls the playing period as specified by content suppliers.

The Walkman will debut in Japan for about \$430 on Dec. 21, and will be introduced in the United States soon after that.

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Company Names: Sony Corp.--Product development

Geographic Codes/Names: 9JAPA Japan

Descriptors: Sound board/audio device; Hardware product development; Flash memory

Event Codes/Names: 331 Product development

Product/Industry Names: 3573293 (Computer Graphics, Sound and Video Processors)

NAICS Codes: 334119 Other Computer Peripheral Equipment Manufacturing

Trade Names: Sony Memory Stick Walkman (Sound board/audio device)--Product development

File Segment: CD File 275